

OHIO WEATHER FOR 1919

OHIO
Agricultural Experiment
Station

WOOSTER, OHIO, U. S. A., JUNE, 1920

BULLETIN 345



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Waterloo State Forest, New Marshfield
Dean State Forest, Steece

¹In cooperation with the College of Agriculture, Ohio State University, Columbus.

²In cooperation with the U. S. Department of Agriculture.

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BULLETIN

OF THE

Ohio Agricultural Experiment Station

NUMBER 345

JUNE, 1920

OHIO WEATHER FOR THE YEAR 1919

W. H. ALEXANDER AND C. A. PATTON

INTRODUCTORY AND GENERAL

The year was characterized by a large amount of fine, open weather with abundant sunshine, moderate temperatures, and well-distributed precipitation, and was unusually free from extreme or hurtful conditions, the weather as a rule being highly favorable to the growth of crops and to farm work except toward the end of the year when field work was interrupted more or less by the continuous rains. Practically the only abnormal conditions worthy of mention were the light snowfall in January and the excessive rainfall in October. In fact, it was the wettest October in the past 65 years and was among the warmest as well. The average temperature for the year for the northern division was 50.9 (+1.5), the middle, 52.2 (+1.3), the southern, 54.2 (+1.3), and for the State, 52.3 (+1.4), while the precipitation averaged as follows: northern division, 35.56 inches (—1.13 inches), middle, 40.34 inches (+2.44 inches), southern, 45.37 inches (+5.71 inches), and the State, 40.33 inches (+2.09 inches). The temperature excess was entirely general over the State but quite a number of stations in the lake counties, also in some west-central and Scioto Valley counties, showed a deficiency. The excess precipitation was greatest in the southeastern sections.

Mean temperatures, January, 1919

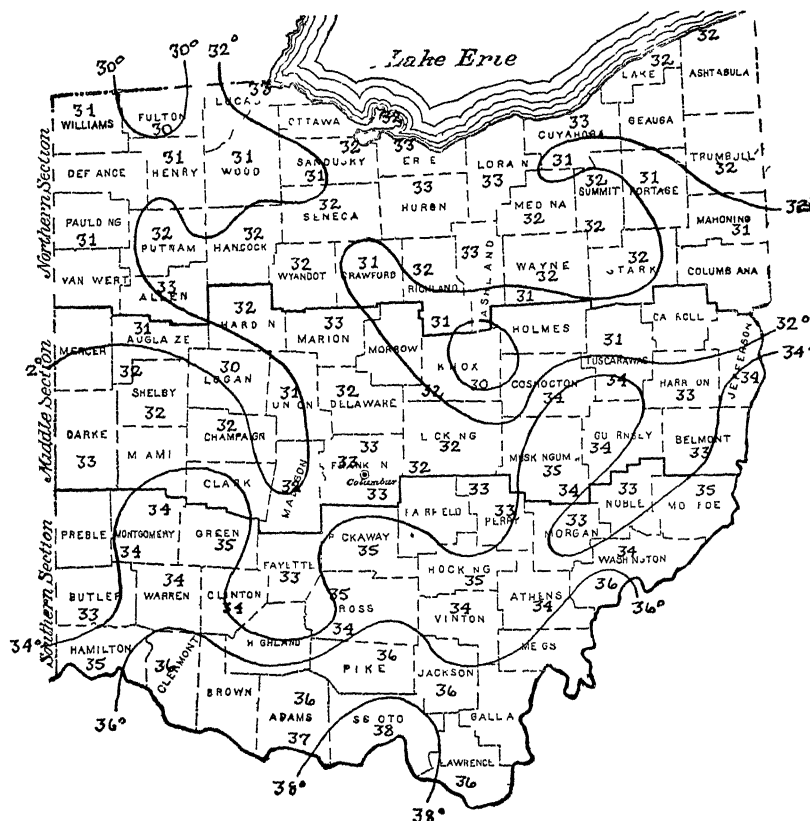


Fig. 1.—The average temperature for the State was 32.9°; the temperatures ranged from a mean of 37.6° at Portsmouth to 29.7° at Bellefontaine. The absolute highest during the month was 69° at Portsmouth on the 22nd, and the lowest was -9° at Millport on the 5th. The monthly range was 78° for the State, while the greatest daily range was 40° at Milligan and Portsmouth on the 20th.

Temperature departures, January, 1919



Fig. 2.—The mean temperature for the State was 4.4° above the state normal. While this excess was general, it was probably greatest over the north-central counties and least in the south-central and southeastern counties.

Precipitation, January, 1919



Fig. 3.—The average for the State was 1.60 inches, ranging in station amounts from 4.13 at Portsmouth to 0.48 inch at North Bass Island. The greatest fall in any 24 consecutive hours was 2.33 inches at Ironton on the 1st. The average number of days with .01 inch or more was 5.

Precipitation departures, January, 1919



Fig. 4.—The average precipitation for the State was 1.62 inches below normal. This deficiency was general over the State except in Scioto County where a slight excess was reported. The deficiency was greatest in west-central counties.

Mean temperatures, February, 1919

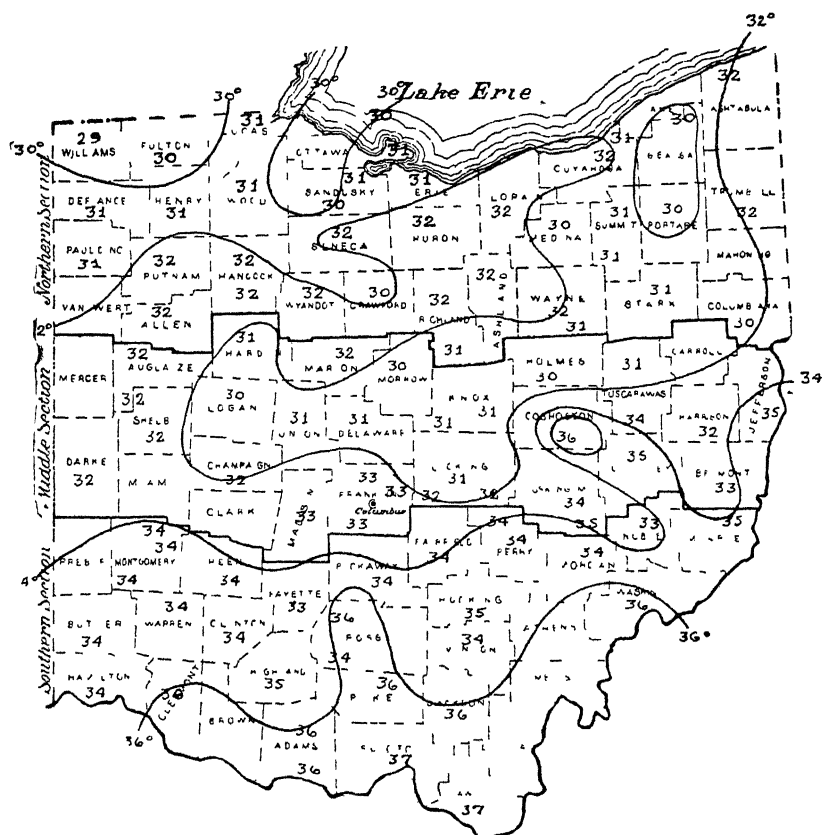


Fig. 6—The mean temperature for the State was 32.5°, ranging from 29.2° at Montpelier to 37° at Ironton. The absolute highest recorded temperature during the month was 70° at Green on the 22nd and the lowest was 3° below zero at Medina on the 10th, giving a range of 73° for the State. The greatest daily range was 43° at Peebles on the 27th and the 28th.

Temperature departures, February, 1919

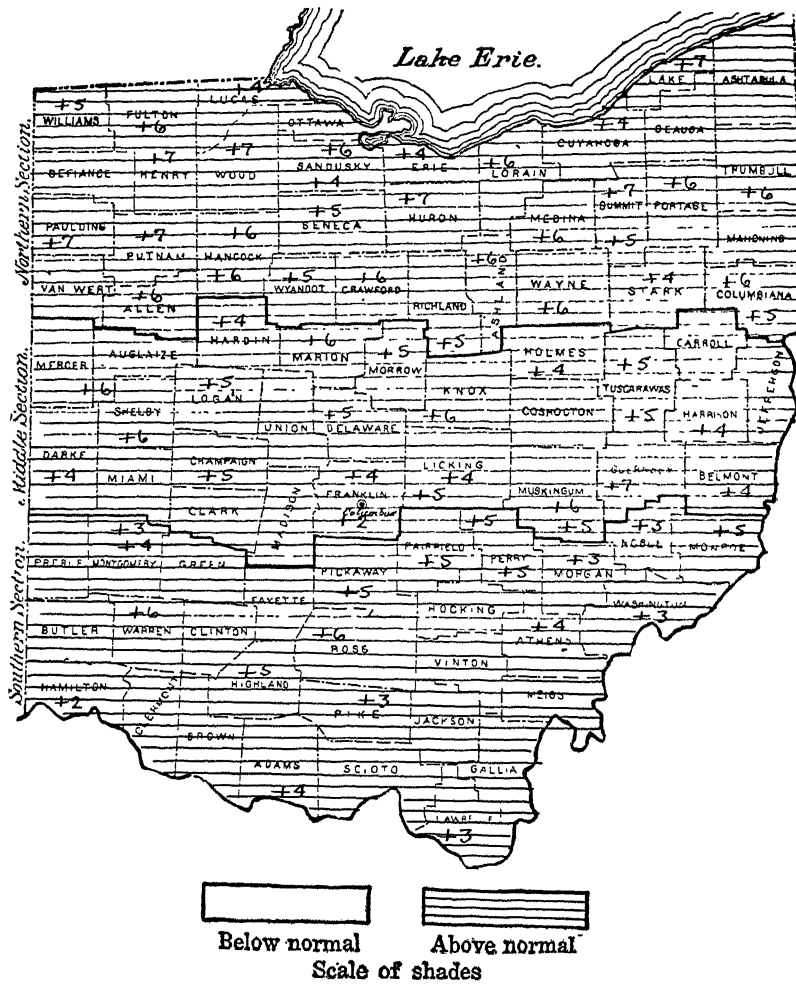
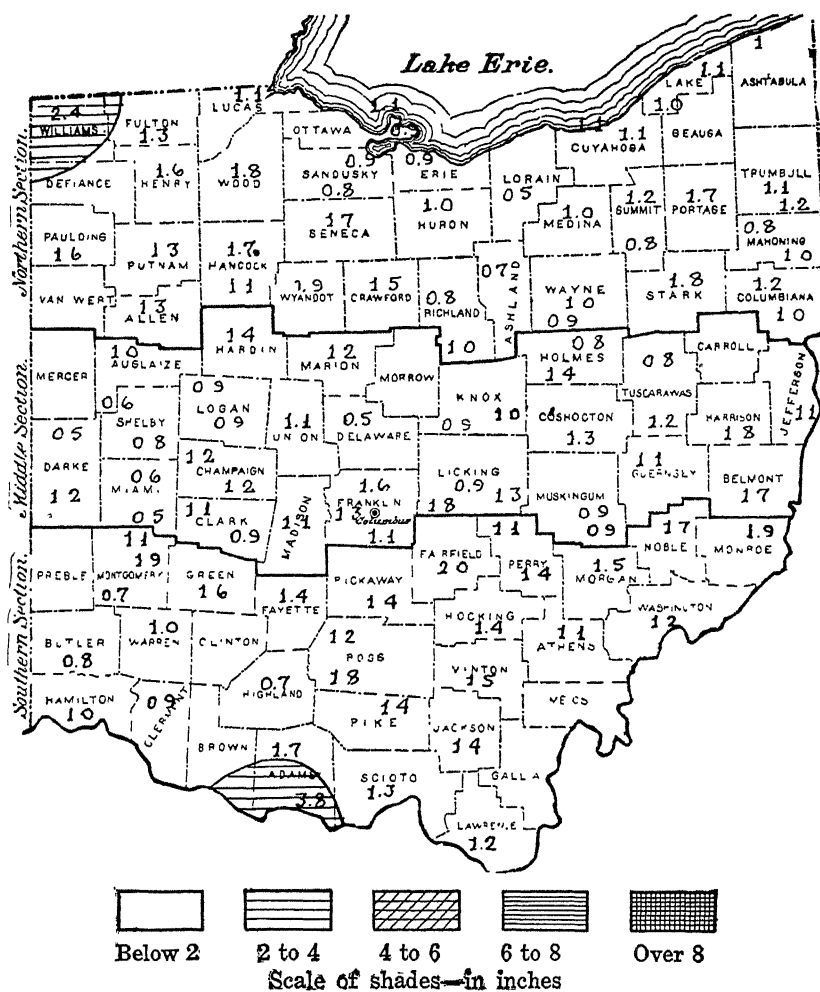


Fig. 7.—The mean temperature for the State was 5° above the normal. This excess was very general and equably distributed, being, however, somewhat greater in the north portion than in either the central or the southern sections.

Precipitation, February, 1919



Snowfall, February, 1919



This map of Ohio illustrates the distribution of mean annual temperature isotherms for the 1950-59 period. The map is divided into three horizontal sections: Northern, Middle, and Southern. Isotherms for 38°, 40°, and 42° are shown, with values ranging from 37 to 47. The map includes county names and boundaries, as well as latitude and longitude coordinates.

Fig. 11.—The mean temperature for the State was 41°, varying from 46.9° at Portsmouth to 36.6° at Put-in-Bay. The highest reported temperature was 79° at Green and Portsmouth on the 25th and at Ironton on the 16th, while the lowest was 10° at Hillhouse on the 7th, giving a range of 69° for the State. The greatest daily range was 53° at Peebles on the 25th.

Temperature departures, March, 1919



Fig. 12.—The mean temperature for the State was 2.2° above the normal, the excess being very generally distributed over the State.

Precipitation, March, 1919



Fig. 13.—The precipitation for the State averaged 4.04 inches, being on an average greatest in the middle division and least in the northern districts. The greatest monthly amount was 8.19 inches at West Manchester and the least was 2.10 inches at Brilliant. The greatest fall in any 24 consecutive hours was 2.10 inches at Saint Paris on the 16th, and the average number of days with .01 or more precipitation was 10.

Precipitation departures, March, 1919

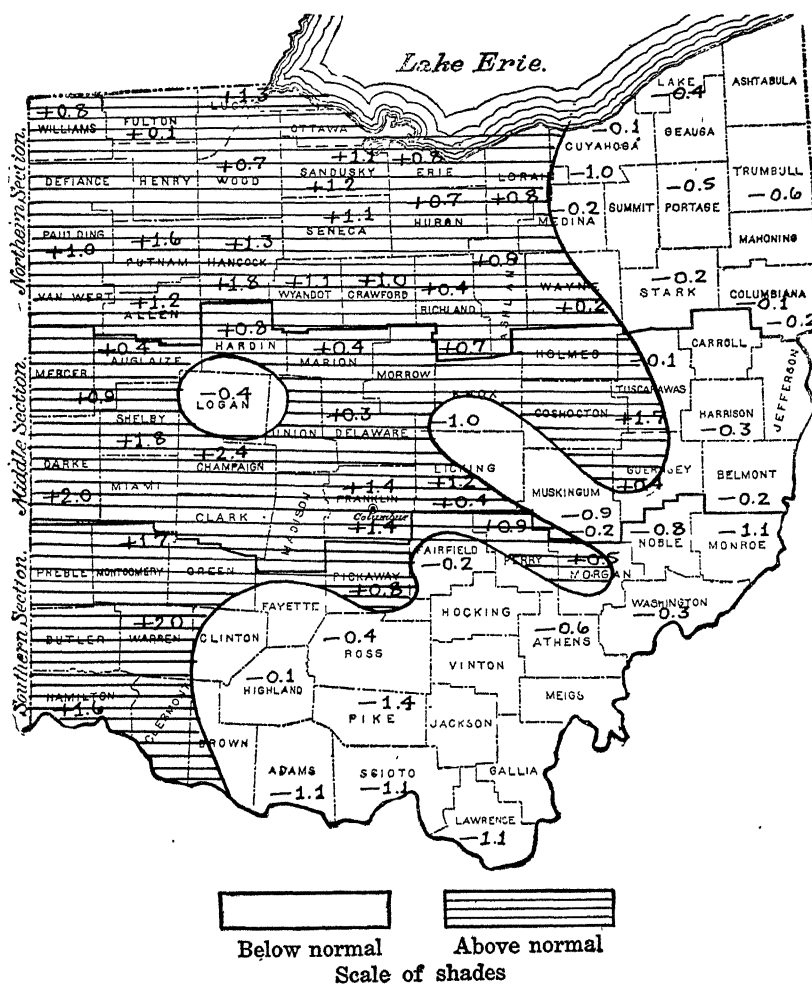


Fig. 14.—The average precipitation for the State as a whole was 0.46 inch above the normal, but the excess was confined to the western half of the State, and was greatest in southwestern counties.

Precipitation, April, 1919

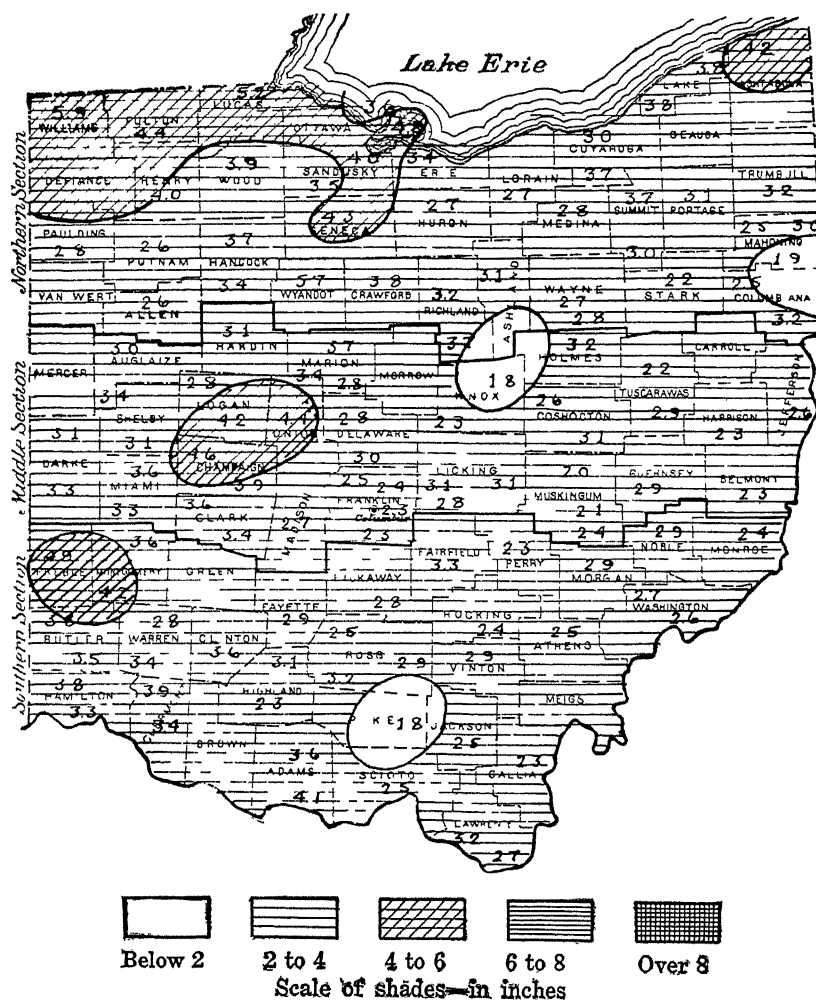


Fig. 18.—The average of the State during the month was 3.02 inches, varying in station amounts from 1.81 inches at Gambier to 5.86 inches at Montpelier. The heaviest rainfall in any 24 consecutive hours occurred at Marysville on the 16th, the fall being 2.15 inches. There were 12 days on which .01 or more rainfall occurred.

Precipitation departures, April, 1919



Fig. 19.—The average precipitation for the State was 0.06 inch above normal. The areas of excess covered most of the extreme western counties and the greater part of the north portion of the State, with a small area in the northeast portion.

Snowfall, April, 1919



Fig. 20.—The snowfall for the month was light over the State, the average being a trace, or less than 0.1 inch. The heaviest local monthly fall was 1.4 inches at Warren. Many stations reported no snow whatever.

Temperature departures, May, 1919



Fig. 22.—The mean temperature for the State was 2.3° below the normal. All sections reported a deficiency excepting those counties along the Ohio River above Scioto Valley.

Precipitation, May, 1919

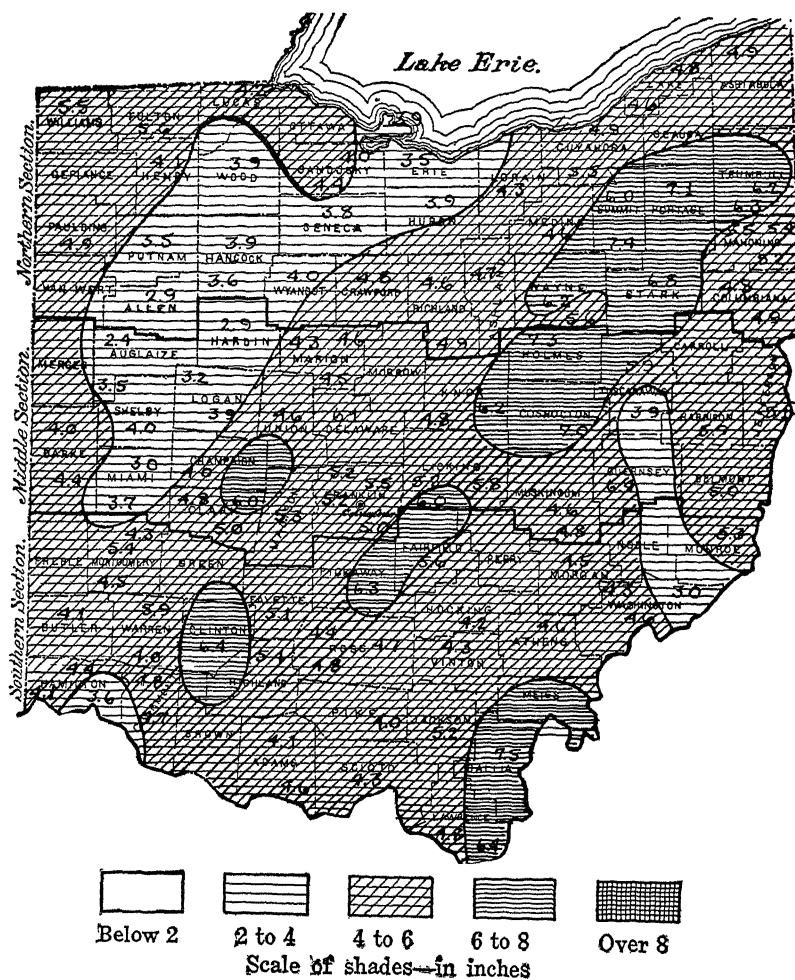


Fig. 23.—The average precipitation for the State was 4.78 inches, varying in station amounts from 2.44 inches at Wapakoneta to 7.47 inches at Gallipolis. The greatest fall of rain in any 24 consecutive hours was 3.15 inches at Warren on the 10th, while the average number of days with .01 inch or more of rain was 13.

Precipitation departures, May, 1919



Fig. 24.—The average precipitation for the State was 1.13 inches above the normal. This excess was quite general excepting only a limited area in the northwestern portion.

Fig. 25.—The average temperature for the State was 74.2°, ranging from 76.6° at Hamilton and Portsmouth to 70.4° at Green Hill. The highest recorded temperature was 100° at Milligan on the 1st and the lowest was 41° at Geneva and Warren (2) on the 29th, giving a range of 59° for the month. The greatest daily range was 43° at Milligan on the 30th.

Temperature departures, June, 1919



Fig. 26.—The mean temperature for the month was 5.2° above the normal. This excess was general over the State, being greatest in northern counties, several stations along the Lake reporting the warmest June on record.

Precipitation, June, 1919

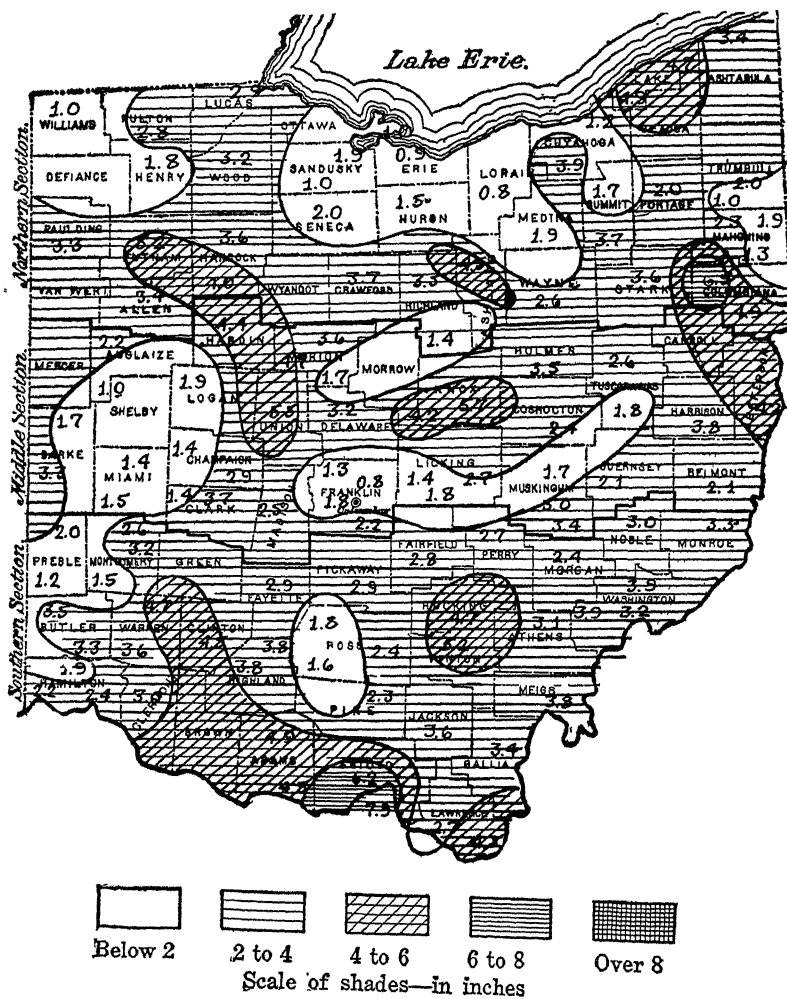


Fig. 27.—The average precipitation for the State during the month was 2.88 inches, ranging in station amounts from 0.91 inch at Sandusky to 7.89 inches at Portsmouth (2). The greatest 24-hour rainfall was 3.82 inches at Kenton on the 24-25th. The average number of days with .01 inch or more rainfall was 8.

Precipitation departures, June, 1919



Fig. 28.—The average precipitation for the month of June was 1.05 inches below normal for the State as a whole. This deficiency while general was to some extent offset by good rains in the southwestern Ohio River Valley counties, and over areas in the northern tier.

Temperature departures, July, 1919



Fig. 30.—The temperature averaged, for the State, 1.5° above the normal. This excess was general but was greatest in the northern tier of counties.

Precipitation, July, 1919

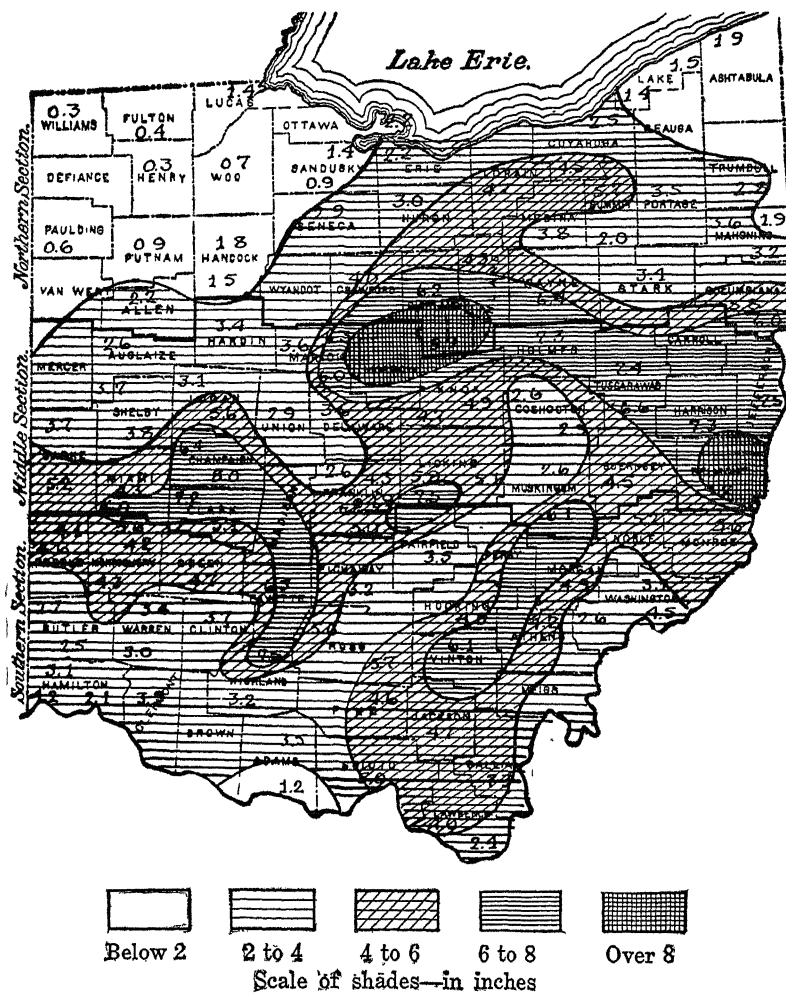


Fig. 31.—The average for the State as a whole was 4.02 inches, ranging in station amounts from 0.27 inch at Montpelier to 9.89 inches at Bangorville. Unusually heavy rains fell over the State on the 14th-15th and again on the 19th-20th. The greatest precipitation in 24 consecutive hours was 4.80 inches, occurring at Demos on the 19th. This amount fell in 5 hours. At Bangorville, 6.35 inches fell on the 19th and 20th. The average number of days with .01 inch or more rainfall was 7.

Map of Ohio showing county names and average annual precipitation in inches. The map includes latitude and longitude lines, with labels for 70°, 72°, and 74° longitude and 60°, 62°, 64°, 66°, 68°, and 70° latitude. The Great Lakes are shown to the north. Precipitation values are indicated by numbers within or near county boundaries. Some counties are circled, including Lucas, Sandusky, Huron, Seneca, Wayne, Monroe, and Franklin. The map is divided into Northern and Southern sections by a dashed line.

Fig. 33.—The average temperature of the month for the State was 70.5°, ranging from 65.6° at Warren (2) to 73.4° at Portsmouth. The highest recorded temperature, 99°, occurred at Frankfort and Peebles on the 5th and the lowest, 39°, at Haydenville on the 28th, giving a range of 60° for the State. The greatest daily range was 46° at Wauseon on the 3rd.

Temperature departures, August, 1919



Fig. 34.—The mean temperature for the State was 1.1° below the normal. This deficiency was quite general with the exception of Lorain County. It was well distributed, being greatest in Portage, Tuscarawas and Logan Counties.

Precipitation, August, 1919

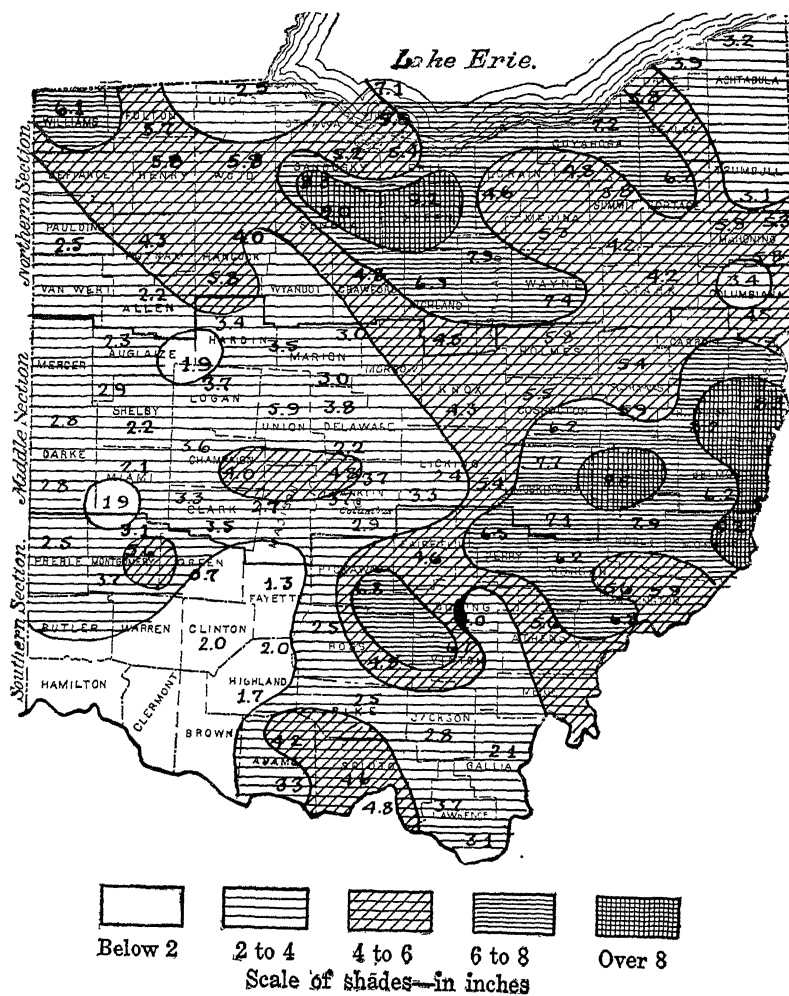


Fig. 35.—The average rainfall for the State was 4.46 inches, ranging in station amounts from 0.72 inch at Xenia to 9.23 inches at Norwalk. The heaviest fall in any 24 consecutive hours was at Tiffin, 5.41 inches falling at that station on the 5th. On this date, heavy rains occurred at many northern and eastern stations.

Mean temperatures, September, 1919

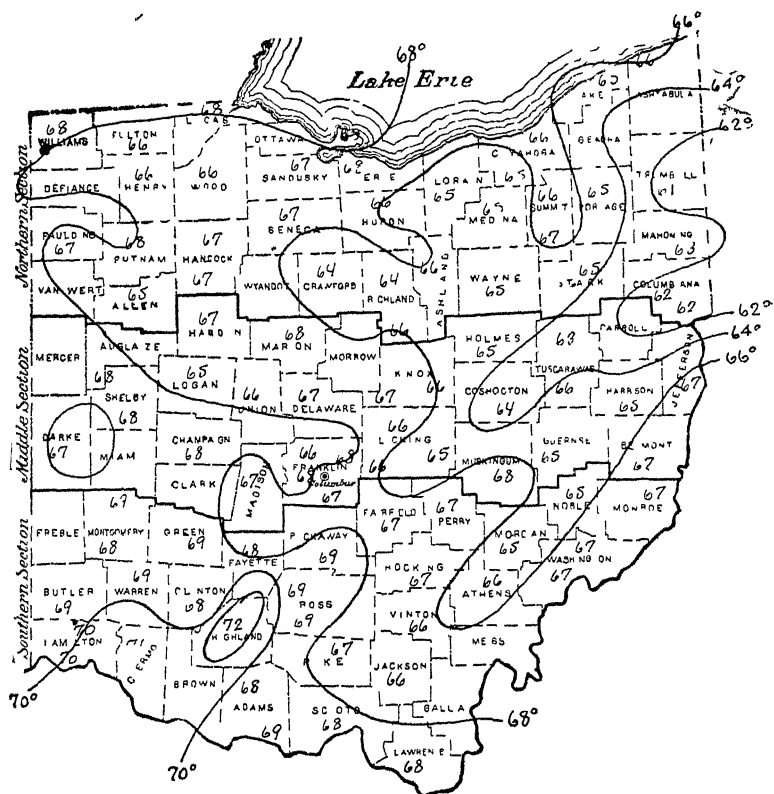


Fig. 37.—The mean temperature for the State was 66.7°, ranging from 59.4° at Warren (2) to 72° at Hillsboro. The highest temperature, 99°, occurred at Circleville and Delaware on the 9th and the lowest, 32°, was recorded at Paulding on the 27th. The greatest daily range was 50° at Milligan and Peebles on the 27th and the range for the State as a whole was 67°.

Precipitation departures, September, 1919



Fig. 40.—The average precipitation for the State was 0.87 inch below the normal. This deficiency was general, occurring in every county with the exception of Pickaway, Fairfield, Hamilton, Guernsey and Allen. It appears to be greatest in southern Richland and central Wayne Counties.

Fig. 41.—Average temperatures for the State during October ranged from 65° at Green to 54.2° at Canfield. The highest recorded temperature during the month was 97° at Waverly on the 2nd and the lowest was 25° at Montpelier on the 29th, giving a range of temperature for the State of 72°. The greatest daily range was 47° at Green on the 1st.

Temperature departures, October, 1919



Fig. 42.—The average temperature for the State, 59.5° , was 6.1° above the normal for the month. The excess was general, but was apparently greatest in the central counties.

Precipitation, October, 1919



Fig. 43.—The average monthly precipitation for the State during the month was 6.29 inches. The greatest monthly amount at any station was 11.19 inches at Mulberry and the least was 3.17 inches at Cleveland. There were 16 days with .01 or more precipitation, an unusual number for October. The heaviest rain in any consecutive period of 24 hours was 2.80 inches at Benton Ridge on the 1st and at Mount Healthy on the 27th. Toward the end of the month heavy rains and flooded creeks occurred in southwestern counties.

Precipitation departures, October, 1919



Fig. 44.—The average precipitation for the month was 3.69 inches above the normal for the State. This excess was quite general but was greatest in southwestern and south-central counties, and least in the northeastern portion of the State.

Mean temperatures, November, 1919

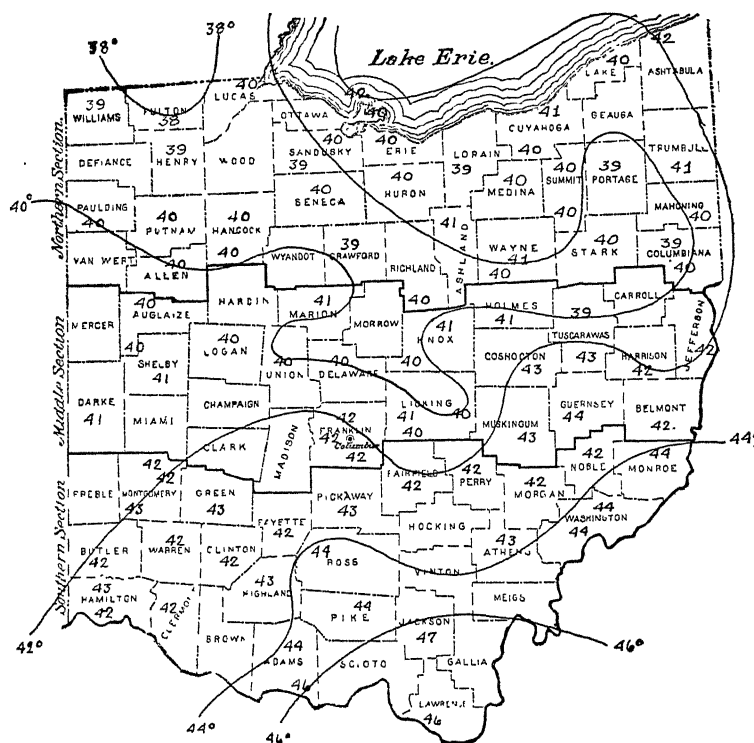


Fig. 45.—The average temperature for the State was 41.2°, ranging from 47° at Jackson to 37.6° at Wauseon. The highest temperature reported from any station during the month was 75° at Hamilton on the 1st and the lowest was 11° at Milligan on the 15th, making a state range of 64°. The greatest daily range was 43° at Jackson on the 14th.

Temperature departures, November, 1919



Fig. 46.—The average temperature for the State was 0.1° above the normal, but the excess was not general. Temperatures were, as a rule, deficient in the western counties and above the normal in the eastern counties.

Precipitation, November, 1919

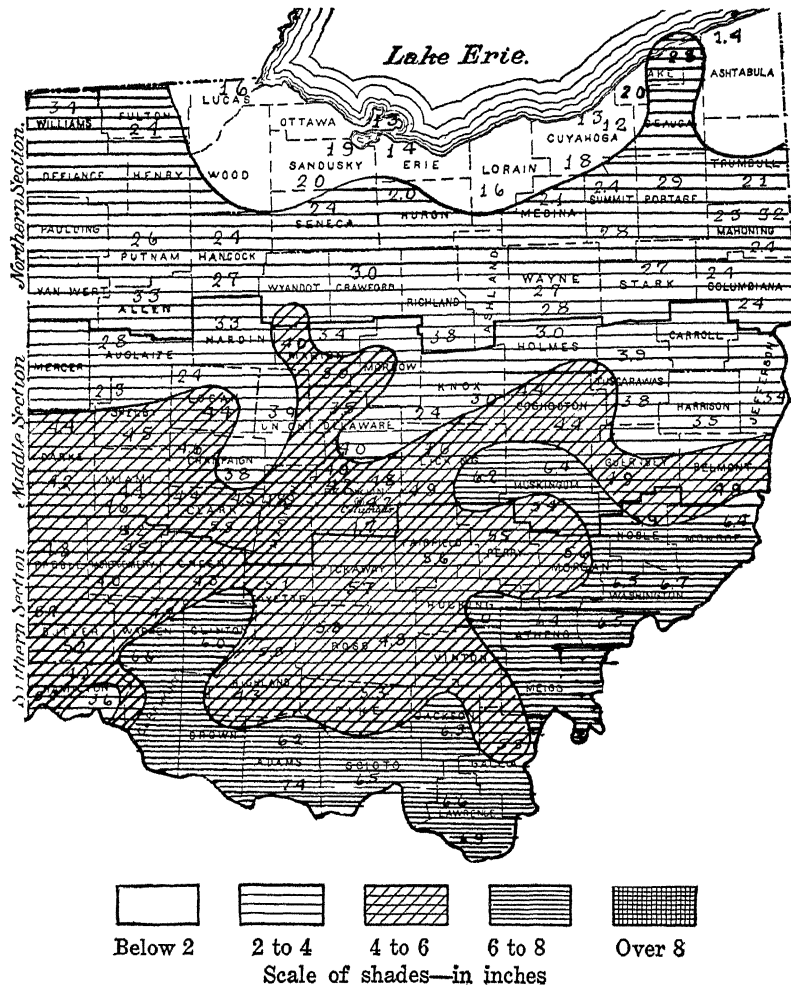


Fig. 47.—The average precipitation for the State was 4.02 inches, ranging in station amounts from 7.40 inches at Green to 1.19 inches at Saint Ignatius College, Cleveland. The greatest fall in any 24 consecutive hours was 2.60 inches at Clarington on the 26th, and the average number of days was .01 inch or more rainfall was 11.

Precipitation departures, November, 1919



Fig. 48.—The average precipitation for the State was 1.09 inches above the normal. This excess was general with the exception of the northeastern counties and a strip in the extreme western part of the State.

Snowfall, November, 1919



Precipitation, December, 1919

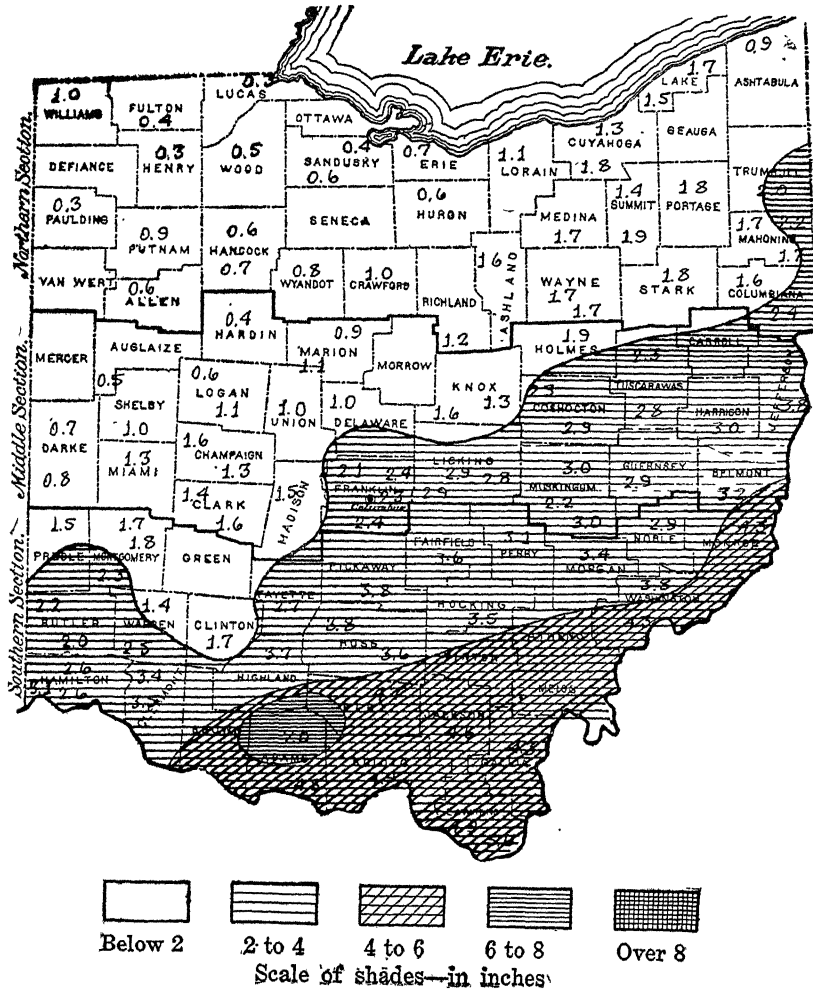


Fig. 52.—The average precipitation for the Station was 2.13 inches, ranging in station amount from 0.26 inch at Napoleon to 7.05 inches at Peebles. The greatest 24-hour precipitation was 2.53 inches at Portsmouth on the 7th. The average number of days with .01 inch or more was 8.

Precipitation departures, December, 1919



Fig. 53.—The average precipitation for the State was 0.89 inch below the normal. This deficiency was not, however, general, the southeastern and south-central counties reporting decidedly above the normal.

Snowfall, December, 1919



Fig. 54.—The snowfall for the month averaged 5.1 inches and was quite general over the State. The greatest monthly fall was 15.8 inches at Hillhouse. The snowfall was heaviest over the east-central and northeastern counties and least over the major part of the west portion of the State.

Mean annual temperatures, 1919

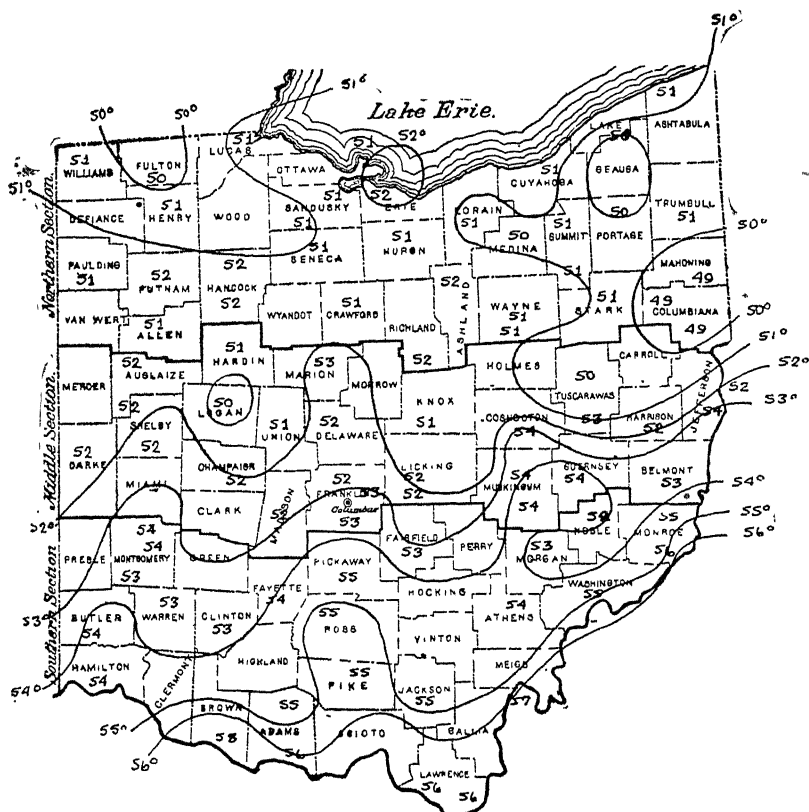


Fig. 55.—The average temperature for the State was 52.3°. The highest annual mean was 56.2° at Green and the lowest 49.3° at Green Hill. The highest reported temperature was 106° at Brilliant on July 20 and the lowest was -12° at Summerfield on December 20, giving a range of 118° for the year.

Temperature departures, 1919



Fig. 56.—There was a very general excess in temperature above the normal over the State for the year 1919, and while very equably distributed, appears to be greatest over the northern counties.

Precipitation, 1919

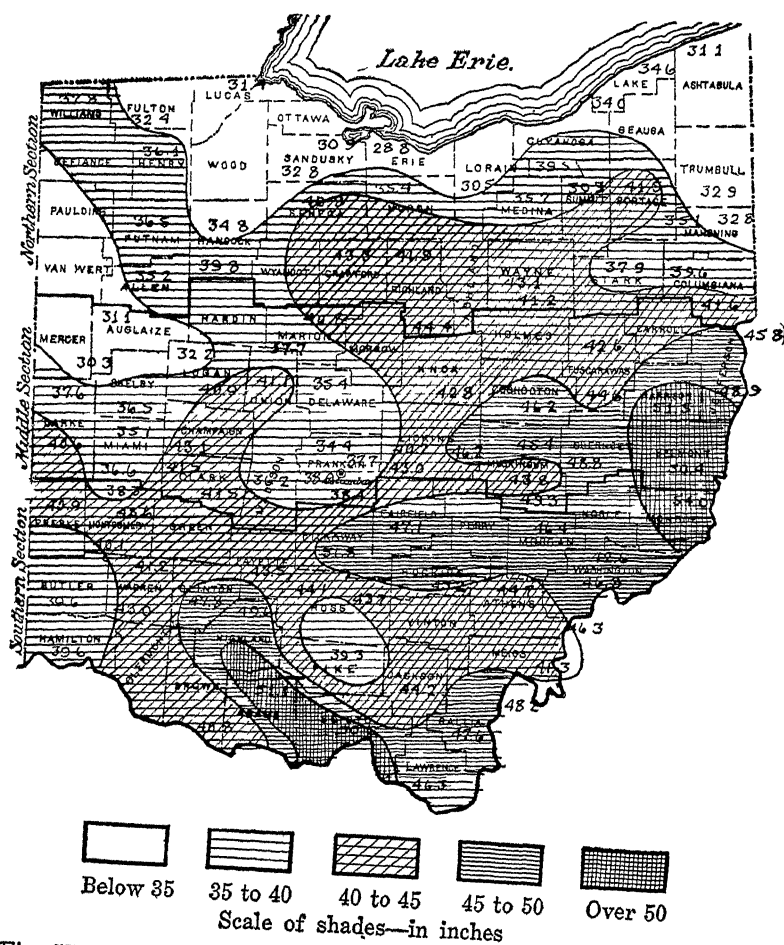


Fig. 57.—The average precipitation for the State was 40.33 inches, varying in annual station amounts from 27.60 inches at Catawba Island to 53.97 inches at Clarington. The greatest monthly amount of rainfall was 11.19 inches at Mulberry in October and the least, 0.26 inch at Napoleon in December.

Date of last killing frost in spring, 1919



Date of first killing frost in autumn, 1919



Fig. 61.—These dates are self-explanatory, and show the local variations of frost formation with latitude and topography in the autumn of 1919.

Length of growing season, 1919



Fig. 62.—The year, on the whole, was highly favorable to growing crops and farm activities. The length of the growing season—the difference between the dates of the last killing frost in spring and the first killing frost in the autumn—is about the normal, being greatest in the extreme northern tier of counties and along the Ohio River and eastward. The longest growing period was 201 days in Erie County and the least was 164 days in Crawford County.

CLIMATOLOGICAL DATA FOR OHIO, 1919

Month	Temperature								Number of days				Precipitation		Wind
	Mean	Highest	Date	Lowest	Date	Range	Greatest daily range	Date	Clear	Partly cloudy	Cloudy	With .01 or more	Monthly	Monthly snowfall	
January.....	32.9	69	22	—9	5	78	40	20	14	7	10	5	1.60	1.3	SW
February.....	32.5	70	22	—3	10	73	43	27*	8	7	13	10	1.19	2.3	SW
March.....	41.0	79	25	10	7	69	53	25	14	6	11	10	4.04	1.4	NW
April.....	49.7	89	9	10	2*	79	50	6	9	8	13	12	3.02	T	SW
May.....	58.6	98	31	30	18	68	45	6*	12	7	12	13	4.78	0	SW
June.....	74.2	100	1	41	29	59	43	30	16	9	5	8	2.88	0	SW
July.....	75.1	106	20	44	11	62	48	12	20	7	4	7	4.02	0	SW
August.....	70.5	99	5	39	28	60	46	3	15	11	5	11	4.46	0	SW
September.....	66.7	99	9	32	27	67	50	27	17	8	5	6	1.90	0	SW
October.....	59.5	97	2*	25	29	72	47	1	10	7	14	16	6.29	0	SW
November.....	41.2	75	1	11	15	64	43	14	11	7	12	11	4.02	0.2	SW
December.....	25.7	69	13	—12	20	81	46	10	9	7	15	8	2.13	5.1	NW
Total or average.....	52.3	106	July 20	—12	Dec. 20	118	53	Mar. 25	155	91	119	117	40.33	10.3	SW

*And other dates.

METEOROLOGICAL SUMMARY

EXPLANATION OF TABLES

The following tables contain statistics of temperature, rainfall, etc., for the year, and are compiled from data obtained from daily observations. T stands for "trace"—less than 0.01 inch of rainfall. Temperature is given in degrees Fahrenheit.

Table I shows the daily rainfall at the Experiment Station at Wooster during the year in inches and hundredths.

Table II shows the daily mean temperature for each day of 1919 and the monthly mean temperature with the 32-year average.

Table III gives the monthly mean temperature at the Station with the 32-year average for the same.

Table IV gives the monthly mean rainfall at the Station with the 32-year average for the same.

Table V gives the monthly mean temperature for the State for 1919 with the 32-year average.

Table VI gives the monthly mean rainfall for 1919 with the 32-year average for the State.

Table VII gives the monthly mean temperature and rainfall for the Station and State for 1919 with the 32-year average.

Table VIII contains the mean temperature, the highest and lowest temperatures with the range of temperature for each month; the number of clear, partly cloudy and cloudy days; the rainfall, snowfall and prevailing direction of wind, for both the Station and State for 1919.

Table IX contains the principal points of interest on temperature, rainfall, and state of weather at the Station and for the State during the year, and a grand summary for 32 years.

Table X gives the date of the last killing frost in the spring, and the first killing frost in autumn, length of the growing season, also the number of times the mercury fell below zero in each winter month since 1894.

Table XI gives the highest and lowest temperature for each month during the last 32 years for both the Station and State.

Table XII gives the total and average precipitation at the different district and county experiment farms.

Table XIII gives the monthly mean temperature at the district experiment farms.

Table XIV gives the daily evaporation and wind movement at the Experiment Station at Wooster for 1916, 1917, 1918 and 1919.

**TABLE I.—DAILY RAINFALL AND MELTED SNOW IN INCHES
FOR 1919 AT THE EXPERIMENT STATION**

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	.78	.....	.37	T	.38	.....	.....	.10	.....	.50	.26	.....	1
2.....	.....	.....	.....	.....	.04	.....	.....	.....	.....	.....	.43	T	2
3.....	T	T	.....	.03	.....	.....	.....	.....	.....	.....	.....	.....	3
4.....	.....	.04	.....	.13	.04	.....	.....	.18	T	.....	.09	.....	4
5.....	.....	.....	.25	.01	T	T	.....	2.96	.....	.83	.....	.....	5
6.....	T	.....	T	.....	.....	.....	.01	.98	.....	.19	.....	.19	6
7.....	T	.....	.....	T	.78	.05	.....	.....	.....	.....	T	.20	7
8.....	.02	.25	.....	T	.10	.58	.....	.....	.....	.....	.....	T	8
9.....	T	T	.63	.....	.62	.....	.....	.....	.....	.09	.....	.39	9
10.....	.....	.....	T	.16	.77	.....	1.56	.....	.65	.54	.03	.10	10
11.....	.....	T	.05	.48	.01	.....	.....	.....	.14	.41	.26	T	11
12.....	.....	.02	.....	.....	T	.....	.....	.....	.....	.50	T	.44	12
13.....	.....	.08	.....	.01	.....	.....	.....	.12	.....	.....	.....	.07	13
14.....	.....	.04	.06	.03	.....	T	.....	T	.....	.03	.....	.....	14
15.....	.....	.10	.52	.14	.01	.....	.57	.01	.....	.01	.....	.....	15
16.....	.....	T	.74	.58	.25	.....	T	.23	.....	.12	.....	.20	16
17.....	T	.02	.44	.06	.33	.22	.....	T	.....	.08	.....	T	17
18.....	.....	.02	.07	.11	.....	.....	.....	.17	.....	.....	.....	.....	18
19.....	.....	.....	.....	.....	.....	.....	.90	.....	.33	.....	T	.....	19
20.....	.....	.....	.....	T	1.28	.20	.72	.....	.06	.....	.....	.....	20
21.....	.....	.27	.....	.18	.49	.27	.19	.18	.10	.28	.....	.....	21
22.....	T	.....	.....	.....	.03	.....	.....	.....	.18	.....	.07	.....	22
23.....	.38	.....	.....	T	.61	.....	.....	.....	T	.02	.06	.....	23
24.....	T	.....	.....	.49	.43	T	.....	.90	.....	.....	.10	T	24
25.....	.....	.12	.....	.....	.....	.88	.....	.19	.....	.02	.28	.....	25
26.....	.....	T	.....	.....	.....	.42	.....	.....	.....	.24	.86	.....	26
27.....	.....	.....	.30	.....	.....	T	.....	.13	.....	.54	.01	.....	27
28.....	.....	T	T	.06	.....	.....	.02	.....	.....	1.04	.....	.....	28
29.....	.02	.....	.....	T	.....	.....	.....	.....	.....	.....	.26	T	29
30.....	.....	.....	.39	.19	.....	.....	.....	1.15	.....	.05	T	1.00	30
31.....	.....	.....	T	.....	.....	.....	2.45	.07	.....	.51	.....	.....	31
Total.....	1.20	.96	3.82	2.66	6.17	2.62	6.42	7.37	1.46	6.00	2.71	1.69	
Average.....	.039	.034	.123	.089	.199	.087	.207	.238	.049	.193	.090	.054	

TABLE II.—MEAN TEMPERATURE FOR EACH DAY OF 1919
AT THE EXPERIMENT STATION—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	48.0	27.5	39.0	27.5	57.0	76.0	71.0	71.5	58.0	63.5	55.0	26.5	..... 1
2.....	32.0	25.0	31.5	30.0	53.0	75.5	74.5	63.0	58.0	73.5	43.0	25.0	..... 2
3.....	14.5	38.5	40.5	37.0	65.5	77.0	77.5	64.5	60.5	72.0	40.5	19.0	..... 3
4.....	10.0	38.0	51.5	50.5	66.5	74.5	79.0	69.0	65.5	71.0	43.5	19.5	..... 4
5.....	12.5	23.5	44.5	52.0	62.5	76.0	79.5	77.5	62.5	72.5	35.0	26.5	..... 5
6.....	17.5	24.5	23.0	59.0	55.5	72.0	77.0	75.0	70.5	66.0	42.5	27.5	..... 6
7.....	30.5	27.5	25.5	61.5	68.5	69.5	72.5	75.0	74.0	53.5	41.0	34.0	..... 7
8.....	30.0	26.0	31.0	62.5	57.0	71.0	68.5	72.5	76.5	52.0	38.0	31.5	..... 8
9.....	20.5	18.5	33.0	59.0	49.5	71.5	75.5	60.0	80.0	63.5	45.0	36.5	..... 9
10.....	20.5	19.5	38.0	68.5	48.5	72.0	75.0	60.0	75.0	72.5	50.5	25.0	.....10
11.....	29.5	23.0	37.5	54.5	46.5	75.5	64.5	63.0	69.5	56.5	49.5	18.5	.....11
12.....	24.0	38.5	40.5	46.0	44.0	76.5	69.5	68.5	58.5	48.5	47.0	41.0	.....12
13.....	36.5	38.5	43.5	46.5	52.0	78.0	78.0	71.5	56.5	44.5	36.0	40.5	.....13
14.....	37.0	43.5	41.5	46.0	56.5	78.0	78.5	73.0	58.5	54.0	31.0	18.5	.....14
15.....	31.0	35.0	42.5	49.5	61.5	78.0	76.0	75.0	69.5	64.0	30.5	15.0	.....15
16.....	35.5	26.0	55.0	52.5	58.0	75.5	66.5	74.5	66.0	61.5	38.5	13.0	.....16
17.....	35.5	30.0	59.5	45.0	57.5	77.5	65.5	71.0	60.5	50.0	48.5	11.0	.....17
18.....	35.5	28.5	46.0	43.0	53.0	77.0	71.5	72.0	60.5	46.0	44.0	6.0	.....18
19.....	37.0	22.5	37.5	46.5	54.5	78.0	74.5	68.0	66.5	46.5	33.5	15.0	.....19
20.....	39.0	28.0	44.0	56.0	59.0	78.0	73.0	70.5	73.5	48.5	32.0	10.5	.....20
21.....	39.0	38.5	43.5	48.0	56.0	74.5	73.0	73.0	73.0	52.5	39.5	24.0	.....21
22.....	45.5	44.0	34.5	51.0	55.5	69.5	73.0	73.0	65.5	48.5	43.5	24.5	.....22
23.....	44.5	42.0	36.5	55.5	53.5	65.0	70.0	79.0	60.5	50.5	37.5	31.5	.....23
24.....	34.0	40.0	41.5	48.5	57.0	71.5	73.5	77.0	60.5	60.0	36.0	29.0	.....24
25.....	37.0	37.5	48.0	34.0	57.5	73.5	70.5	64.0	63.5	57.0	38.0	20.5	.....25
26.....	37.0	24.0	55.5	40.0	60.5	74.5	77.5	61.5	51.0	62.0	40.0	26.0	.....26
27.....	41.0	32.5	40.5	45.5	63.0	67.5	80.0	61.5	58.5	59.0	34.5	32.0	.....27
28.....	38.5	47.0	29.5	54.5	61.5	63.0	82.0	62.0	63.5	55.0	35.5	26.0	.....28
29.....	29.5	...	33.0	45.5	66.5	62.0	72.0	64.0	69.5	44.0	46.5	20.0	.....29
30.....	34.0	....	32.5	46.0	69.5	67.0	69.5	70.5	67.5	59.5	41.5	27.5	.....30
31.....	33.0	....	31.0	....	75.5	....	74.5	67.0	.....	64.0	.....	34.0	.....31
Monthly mean.	31.9	31.7	39.7	48.7	58.1	73.2	73.6	69.3	65.1	57.8	40.6	24.4	
32-yr. average..	27.3	26.4	37.1	48.3	58.5	67.4	71.4	69.7	63.6	51.5	40.1	30.0	

**TABLE III.—MONTHLY MEAN TEMPERATURE FOR 32 YEARS
AT WOOSTER—Degrees**

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	23.0	28.8	31.7	46.3	57.7	69.8	70.1	67.8	57.1	44.9	40.7	31.4	47.4	1888
1889.....	31.1	22.9	38.7	47.1	57.8	64.5	70.0	66.0	60.8	45.3	39.3	40.7	48.6	1889
1890.....	36.0	36.6	30.9	48.4	56.0	69.8	70.5	65.8	59.6	50.0	31.3	28.8	49.7	1890
1891.....	30.0	34.0	32.0	49.0	52.0	68.0	68.0	71.0	68.0	49.0	38.0	37.0	49.0	1891
1892.....	22.0	33.0	33.0	47.0	47.0	70.0	70.0	69.0	61.0	49.0	38.0	28.0	48.0	1892
1893.....	18.0	28.0	38.8	50.1	57.6	69.3	72.0	67.9	63.2	52.3	37.7	30.9	48.7	1893
1894.....	32.8	26.7	43.5	50.5	57.5	67.9	71.4	69.2	66.1	52.3	36.5	32.9	50.6	1894
1895.....	21.9	17.9	32.4	49.5	59.4	69.9	68.6	70.9	66.5	44.2	40.4	32.8	47.8	1895
1896.....	27.9	29.2	29.8	54.6	64.5	65.6	70.2	68.5	60.6	45.8	44.4	30.6	49.3	1896
1897.....	24.0	30.0	39.3	47.2	53.4	64.3	73.2	67.0	66.7	55.9	40.7	31.8	49.4	1897
1898.....	31.6	27.2	43.3	45.3	58.2	68.7	74.5	71.1	66.2	52.6	38.4	27.9	50.4	1898
1899.....	26.6	21.3	35.0	52.1	60.0	69.4	70.0	71.0	61.6	55.0	43.2	29.0	49.5	1899
1900.....	30.2	25.0	31.8	47.8	61.5	68.5	72.6	74.1	67.1	58.9	40.6	30.7	50.7	1900
1901.....	28.3	20.0	39.1	45.2	57.9	69.1	75.9	71.6	63.3	51.7	36.6	26.1	48.7	1901
1902.....	26.3	21.4	41.2	46.2	61.2	65.6	73.0	66.4	62.7	53.9	47.3	28.7	49.5	1902
1903.....	24.4	29.0	45.7	48.0	62.2	63.0	71.8	68.8	64.4	58.2	36.8	21.7	49.1	1903
1904.....	18.6	20.5	37.6	42.8	59.4	67.0	69.8	66.7	64.2	50.4	39.6	28.1	47.1	1904
1905.....	22.6	19.8	41.2	46.8	59.2	68.0	71.6	70.0	63.8	51.0	38.3	33.1	48.8	1905
1906.....	35.9	25.8	30.2	51.9	59.9	68.8	71.0	74.2	67.7	51.4	40.4	31.2	50.7	1906
1907.....	30.8	24.6	44.9	41.7	52.8	64.6	69.9	68.6	65.0	47.4	38.5	32.1	48.4	1907
1908.....	28.7	26.8	43.1	50.1	62.2	68.1	72.4	69.0	66.4	53.0	41.0	31.7	51.0	1808
1909.....	31.7	33.6	35.9	48.4	57.9	69.3	69.6	70.4	62.2	47.8	48.3	25.2	50.0	1909
1910.....	26.7	23.8	47.2	50.2	54.7	64.3	72.6	70.9	65.3	54.9	34.8	24.4	49.2	1910
1911.....	31.3	33.8	35.0	46.5	63.5	68.9	71.7	70.6	65.2	51.8	36.7	34.7	50.8	1911
1912.....	16.6	20.5	30.3	50.5	61.1	64.6	71.5	67.1	65.6	52.4	41.0	33.1	47.8	1912
1913.....	34.2	25.1	38.5	48.9	58.0	67.4	72.4	71.5	62.5	52.2	42.4	33.7	50.6	1913
1914.....	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	49.2	1914
1915.....	24.4	33.2	31.2	53.2	55.0	64.8	69.2	66.1	65.6	53.4	42.4	28.6	48.9	1915
1916.....	35.3	24.7	32.0	46.8	60.2	62.9	74.6	72.2	62.1	50.1	40.4	26.2	48.9	1916
1917.....	25.6	21.3	36.3	46.7	52.7	66.3	71.8	70.7	60.1	45.4	36.5	20.7	46.3	1917
1918.....	14.2	29.6	43.1	48.6	65.0	67.2	70.4	75.1	57.4	55.5	41.9	37.8	50.5	1918
1919.....	31.9	31.7	39.7	48.7	58.1	73.2	73.6	69.3	65.1	57.8	40.6	24.4	51.2	1919
Average...	27.3	26.4	37.1	48.3	58.5	67.4	71.4	69.7	63.6	51.5	40.1	30.0	49.2	

TABLE IV.—MONTHLY RAINFALL FOR 32 YEARS AT
WOOSTER—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.34	2.43	3.34	2.48	3.82	2.31	4.54	4.35	1.92	3.18	4.95	1.39	38.05	1888
1889.....	4.33	2.42	2.13	1.58	2.97	4.86	6.73	1.98	4.05	1.36	3.53	3.93	39.87	1889
1890.....	4.71	6.20	4.37	3.10	6.37	6.92	2.67	4.65	5.13	7.45	2.62	1.74	53.94	1890
1891.....	2.91	4.83	3.71	1.66	2.24	7.13	3.24	1.85	.93	1.33	5.73	2.92	38.48	1891
1892.....	2.67	2.67	3.38	2.44	7.69	7.89	4.73	2.69	3.20	.37	2.06	2.74	41.53	1892
1893.....	4.01	6.33	1.89	5.66	6.28	2.51	1.38	1.53	1.85	5.15	2.49	1.50	40.58	1893
1894.....	2.19	3.37	2.36	1.74	4.41	2.23	1.38	.76	4.25	2.53	2.41	3.15	30.78	1894
1895.....	3.97	.41	1.98	1.69	1.38	4.20	2.19	2.30	3.92	1.15	4.21	3.51	30.91	1895
1896.....	1.73	2.27	3.67	3.34	3.41	3.98	8.15	1.96	5.16	.71	1.78	3.04	39.10	1896
1897.....	3.42	2.64	2.81	2.75	4.97	2.98	3.89	3.86	.29	.89	5.76	2.50	36.76	1897
1898.....	4.10	2.27	6.44	2.56	4.60	2.70	6.79	5.53	2.15	4.28	4.14	2.29	47.85	1898
1899.....	3.29	1.64	3.95	1.28	4.42	1.95	3.73	.53	5.56	2.21	1.59	2.78	32.93	1899
1900.....	2.78	2.74	2.25	1.70	2.23	3.71	5.65	5.97	2.19	2.10	4.30	.99	36.61	1900
1901.....	1.58	1.20	3.09	2.46	4.32	4.82	3.32	3.58	5.64	.79	1.62	3.47	35.89	1901
1902.....	.63	.83	2.99	1.55	2.57	5.55	5.26	1.87	3.49	1.52	2.62	4.07	32.95	1902
1903.....	3.54	3.69	3.29	4.55	1.59	3.69	4.61	6.58	2.07	2.63	2.25	1.95	40.44	1903
1804.....	5.27	3.90	6.22	6.59	4.45	1.67	4.93	2.03	2.27	.87	.40	2.68	41.28	1904
1905.....	1.83	1.36	2.61	2.51	5.97	7.50	5.14	4.47	5.10	2.32	2.04	2.08	42.93	1905
1906.....	1.93	1.06	3.57	2.27	2.98	3.81	4.93	7.38	5.16	3.55	2.39	3.79	42.82	1906
1907.....	6.92	1.09	5.80	2.69	3.48	3.81	3.96	2.04	3.13	2.34	1.33	3.41	40.00	1907
1908.....	1.96	3.89	5.02	3.64	4.56	2.17	3.44	3.17	.73	1.22	1.09	3.05	33.94	1908
1909.....	2.95	5.22	3.02	3.92	4.06	6.44	4.05	5.21	1.73	2.16	2.91	2.55	44.22	1909
1910.....	5.29	4.41	.54	3.22	4.87	2.57	1.12	.95	2.59	5.24	2.36	2.29	35.45	1910
1911.....	4.13	2.25	3.26	3.71	2.45	3.78	3.36	5.19	6.53	5.45	2.50	4.54	47.15	1911
1912.....	2.30	1.58	3.77	5.58	5.65	2.21	7.46	7.32	4.41	2.18	1.79	2.35	46.70	1912
1913.....	7.86	2.43	11.84	3.66	3.04	.97	4.07	4.75	3.70	3.17	3.77	1.92	51.18	1913
1914.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	2.87	3.33	1.68	3.67	37.38	1914
1915.....	2.32	2.04	1.17	1.41	2.80	6.32	8.35	3.93	4.90	2.85	2.65	3.32	42.05	1915
1916.....	4.98	1.73	4.72	2.92	2.95	5.05	2.21	2.26	1.07	2.03	2.58	2.43	34.93	1916
1917.....	3.12	1.30	3.66	2.00	3.94	4.84	2.20	2.44	1.48	4.76	.44	1.64	31.82	1917
1918.....	2.66	2.39	2.01	2.96	4.88	1.91	2.68	3.03	3.27	2.82	1.43	3.71	33.75	1918
1919.....	1.20	.96	3.82	2.66	6.17	2.62	6.42	7.37	1.46	6.00	2.71	1.69	43.08	1919
Average...	3.30	2.61	3.60	2.96	4.01	4.04	4.18	3.64	3.19	2.75	2.63	2.72	39.54	

TABLE V.—MONTHLY MEAN TEMPERATURE FOR 32 YEARS
FOR THE STATE—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	24.3	30.5	34.2	49.2	58.8	70.4	72.1	70.4	60.3	47.9	42.9	33.3	49.5	1888
1889.....	33.3	25.8	40.2	49.9	60.2	66.7	72.5	69.1	62.9	47.9	41.0	43.8	51.1	1889
1890.....	38.8	39.4	34.5	51.3	59.2	73.3	73.0	69.8	62.1	52.7	42.2	31.2	52.2	1890
1891.....	33.0	36.0	35.0	52.0	58.0	71.0	69.0	70.0	67.0	51.0	40.0	39.0	51.8	1891
1892.....	24.0	35.0	35.0	49.0	56.0	73.0	73.0	71.0	64.0	52.0	38.0	29.0	50.2	1892
1893.....	18.0	29.0	38.0	50.2	58.3	70.6	74.5	70.7	65.2	53.7	39.3	32.7	50.0	1893
1894.....	33.7	28.9	45.1	50.6	60.0	71.3	74.3	71.2	67.8	53.9	37.5	33.9	52.4	1894
1895.....	23.4	19.6	35.5	51.7	61.1	72.0	71.6	73.5	66.0	46.9	41.9	33.9	50.0	1895
1896.....	29.4	30.5	32.4	56.9	67.9	69.5	73.2	71.8	62.7	49.0	45.1	32.9	51.8	1896
1897.....	25.5	32.4	41.5	49.3	56.3	68.1	75.5	69.4	66.9	58.1	42.2	32.8	51.5	1897
1898.....	32.4	30.0	45.0	47.2	61.0	71.9	76.0	73.5	67.8	54.1	38.8	28.8	52.2	1898
1899.....	27.8	21.6	36.9	53.3	63.3	71.5	74.1	73.7	64.1	57.4	43.9	30.2	51.5	1899
1900.....	31.1	26.0	32.9	50.1	62.9	69.8	74.1	76.3	69.3	60.5	41.6	31.6	52.2	1900
1901.....	29.2	21.1	39.5	46.7	59.0	70.9	78.1	73.1	64.8	53.8	37.7	27.9	50.2	1901
1902.....	27.3	23.3	41.9	48.2	62.6	66.9	74.0	68.9	63.6	54.6	48.5	29.4	50.7	1902
1903.....	27.1	29.9	46.7	49.9	63.9	64.4	72.9	70.7	65.6	54.0	37.2	23.4	50.5	1903
1904.....	20.7	22.9	39.7	44.4	60.7	68.4	71.4	68.8	65.5	52.2	40.5	28.0	48.6	1904
1905.....	22.7	20.8	42.7	48.5	60.7	69.2	73.0	71.7	65.3	52.6	39.6	32.9	50.0	1905
1906.....	35.7	27.3	31.3	52.1	61.3	69.8	72.1	74.6	68.9	52.7	41.1	32.3	51.6	1906
1907.....	32.2	26.0	45.9	42.5	54.5	65.6	72.6	69.5	65.5	48.8	39.1	33.0	49.6	1907
1908.....	29.1	27.7	43.4	51.0	62.8	69.2	73.9	71.2	68.0	54.1	41.7	33.1	52.1	1908
1909.....	32.2	34.7	37.3	49.1	58.7	70.1	70.7	71.9	63.2	48.8	48.9	25.4	50.9	1909
1910.....	27.6	25.5	48.2	51.5	56.0	65.9	73.8	71.4	66.3	56.7	36.3	25.5	50.4	1910
1911.....	32.8	34.5	37.4	47.7	66.3	70.9	74.0	72.5	67.5	53.3	37.6	36.3	52.6	1911
1912.....	17.9	22.4	32.9	51.9	62.5	66.6	73.4	69.2	67.4	54.8	42.2	33.8	49.6	1912
1913.....	36.0	26.7	40.1	50.0	60.3	69.8	74.5	73.3	64.1	54.1	44.4	34.5	52.3	1913
1914.....	33.4	22.1	36.0	50.1	62.2	71.1	74.0	72.8	63.4	56.9	42.1	27.0	50.9	1914
1915.....	26.3	35.2	33.2	54.8	57.8	66.8	71.5	67.5	67.0	55.4	44.3	30.4	50.8	1915
1916.....	35.5	26.5	34.7	49.3	61.8	64.7	76.9	74.4	63.7	53.2	42.6	29.1	51.1	1916
1917.....	28.0	25.4	39.6	48.7	54.1	66.9	72.3	71.3	61.9	46.7	38.7	21.4	47.9	1917
1918.....	14.9	31.0	44.0	48.7	66.4	68.8	71.3	76.6	58.4	56.6	42.3	39.3	51.5	1918
1919.....	32.9	32.5	41.0	49.7	58.6	74.2	75.1	70.5	66.7	59.5	41.2	25.7	52.3	1919
Average.	28.6	28.1	38.8	49.9	60.5	69.4	73.4	71.5	65.2	53.2	41.3	31.3	50.9	

TABLE VI.—MONTHLY RAINFALL FOR 32 YEARS FOR
THE STATE—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	3.65	1.74	3.55	1.99	3.77	3.41	4.40	5.16	2.27	3.98	4.25	1.47	39.64	1888
1889.....	3.13	1.35	1.38	1.79	3.71	4.13	4.19	1.50	3.62	1.78	4.02	2.81	33.41	1889
1890.....	4.94	5.25	5.29	3.45	5.52	4.50	1.99	4.66	5.56	4.27	2.53	2.37	50.33	1890
1891.....	2.82	4.91	4.19	2.13	2.20	4.82	3.82	3.07	1.50	1.76	5.00	2.39	38.61	1891
1892.....	2.11	3.03	2.86	3.32	6.32	5.61	3.80	2.99	2.36	.73	2.32	1.71	37.16	1892
1893.....	2.56	5.13	2.09	6.37	4.67	3.34	2.49	2.17	1.57	4.24	2.09	2.61	39.63	1893
1894.....	2.14	2.79	2.16	2.31	4.00	2.65	1.56	1.67	3.31	2.01	2.17	2.98	29.75	1894
1895.....	4.00	.69	1.59	2.11	1.80	2.47	2.00	2.96	1.66	1.22	4.11	3.85	28.46	1895
1896.....	1.67	2.21	3.34	2.78	2.67	4.81	8.11	3.38	5.13	1.20	2.63	1.65	39.58	1896
1897.....	1.93	3.64	5.17	3.27	3.63	2.85	4.65	2.72	.78	.64	6.62	2.39	38.59	1897
1898.....	5.25	2.32	6.23	2.38	4.10	2.86	3.98	4.58	2.56	3.72	3.17	2.71	43.78	1898
1899.....	3.01	2.11	4.64	1.61	4.32	2.94	4.17	1.82	2.68	2.14	1.72	3.16	34.32	1899
1900.....	2.37	3.46	2.35	1.89	2.40	3.01	4.62	3.68	1.76	1.89	4.15	1.24	32.82	1900
1901.....	1.70	1.24	2.66	3.40	3.96	4.44	2.72	3.33	2.86	.73	1.53	3.79	32.36	1901
1902.....	1.42	.88	2.76	2.21	3.09	7.48	4.69	1.67	4.55	2.28	2.60	3.95	37.58	1902
1903.....	2.36	4.95	3.51	4.01	2.82	4.02	3.67	3.20	1.52	2.62	2.10	2.07	36.85	1903
1904.....	3.85	2.69	5.67	3.53	3.79	2.88	4.13	2.74	1.95	1.50	.37	3.09	36.19	1904
1905.....	1.73	1.58	2.50	3.10	5.63	4.72	3.93	4.46	2.86	3.65	2.63	2.29	39.08	1905
1906.....	1.98	1.16	3.97	1.89	2.17	3.42	5.14	4.77	2.92	3.19	2.59	3.68	36.88	1906
1907.....	6.06	.85	5.55	2.74	3.47	4.57	5.36	2.48	3.92	2.76	1.93	3.16	42.85	1907
1908.....	1.82	4.10	5.43	3.71	4.72	2.51	4.08	2.59	.58	1.17	1.06	2.33	34.10	1908
1909.....	3.24	5.39	2.77	4.13	4.72	5.86	3.76	3.56	1.78	2.31	2.52	2.62	42.66	1909
1910.....	4.48	4.05	.26	3.49	3.80	2.66	3.17	1.58	4.05	4.19	1.89	2.41	36.03	1910
1911.....	3.90	1.95	2.33	4.35	1.69	3.92	2.40	5.39	4.87	4.99	2.91	3.93	42.63	1911
1912.....	2.12	2.08	4.17	4.47	3.12	3.17	5.70	4.08	3.11	2.44	1.10	2.26	37.82	1912
1913.....	7.01	1.94	8.40	3.35	3.53	1.87	5.20	2.52	2.37	3.36	3.52	1.68	44.75	1913
1914.....	2.30	3.04	2.42	4.01	3.11	3.14	2.19	5.08	1.41	3.42	1.53	3.77	35.42	1914
1915.....	3.40	1.96	1.44	1.42	3.99	4.36	6.32	4.52	4.51	2.39	2.68	3.84	40.83	1915
1916.....	5.07	1.83	4.15	2.35	4.27	4.86	1.92	3.11	2.56	2.12	2.11	2.89	37.24	1916
1917.....	3.78	1.43	3.65	3.38	4.18	4.99	3.88	2.70	1.86	4.81	0.54	1.31	36.51	1917
1918.....	3.23	2.16	2.49	3.23	4.49	2.68	2.61	3.64	3.75	2.71	2.02	-3.53	36.54	1918
1919.....	1.60	1.19	4.04	3.02	4.78	2.88	4.02	4.46	1.90	6.29	4.02	2.13	40.33	1919
Average.	3.14	2.60	3.53	3.04	3.78	3.81	3.90	3.32	2.75	2.70	2.64	2.69	37.90	

TABLE VII.—MEAN TEMPERATURE AND RAINFALL AT THE EXPERIMENT STATION AND FOR THE STATE IN 1919 AND FOR 32 YEARS

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Mean temperature at the Station, 1919 .....degrees..	31.9	31.7	39.7	48.7	58.1	73.2	73.6	69.3	65.1	57.8	40.6	24.4	51.2
Thirty-two year average temperature at the Station...do....	27.3	26.4	37.1	48.3	58.5	67.4	71.4	69.7	63.6	51.5	40.1	30.0	49.2
Mean temperature for the State, 1919.....do....	32.9	32.5	41.0	49.7	58.6	74.2	75.1	70.5	66.7	59.5	41.2	25.7	52.3
Thirty-two year average temperature for the State....do....	28.6	28.1	38.8	49.9	60.5	69.4	73.4	71.5	65.2	53.2	41.3	31.3	50.9
Rainfall at the Station, 1919.....inches..	1.20	.96	3.82	2.66	6.17	2.62	6.42	7.37	1.46	6.00	2.71	1.69	43.08
Thirty-two year average rainfall at the Station.....do....	3.30	2.61	3.60	2.96	4.01	4.04	4.18	3.64	3.19	2.75	2.63	2.72	39.54
Rainfall for the State, 1919.....do....	1.60	1.19	4.04	3.02	4.78	2.88	4.02	4.46	1.90	6.29	4.02	2.13	40.33
Thirty-two year average rainfall for the State.....do....	3.14	2.60	3.53	3.04	3.78	3.81	3.90	3.32	2.75	2.70	2.64	2.69	37.90

TABLE VIII.—SUMMARY OF METEOROLOGICAL DATA BY MONTHS FOR 1919

Month	Temperature—degrees											Number of days				Precipitation—inches			Prevailing wind
	Mean	Highest	Date	Lowest	Date	Range	Mean daily range	Greatest daily range	Date	Least daily range	Date	Clear	Partly cloudy	Cloudy	Rain .01 or more	Monthly rainfall	Average daily rainfall	Monthly snowfall	
At the Station																			
January.....	31.9	59	22	2	4	57	18.3	34	20	4	*15	8	6	17	4	1.20	.039	1.30	SW
February.....	31.7	62	28	9	9	53	17.2	30	28	7	*14	10	4	14	10	.96	.034	2.30	SW
March.....	39.7	68	25	16	7	52	23.3	41	27	9	28	12	3	16	11	3.82	.123	1.40	NW
April.....	48.7	77	*9	15	2	62	23.2	37	27	12	12	15	11	2	17	2.66	.089	T	SW
May.....	58.1	94	31	35	6	59	23.3	41	6	1	9	13	6	12	16	6.17	.199		SW
June.....	73.2	93	*1	46	29	47	24.9	34	*1	13	*26	22	5	3	7	2.62	.087		SW
July.....	73.6	95	*3	49	*11	46	26.6	38	1	16	*15	22	8	1	8	6.42	.207		SW
August.....	69.3	90	5	45	11	45	23.7	36	11	13	1	18	11	2	14	7.37	.238		SW
September.....	65.1	90	8	37	26	53	25.0	37	*6	11	22	16	8	6	6	1.46	.049		NW
October.....	57.8	87	*2	30	18	57	19.1	35	23	6	6	10	5	16	19	6.00	.193		SW
November.....	40.6	61	1	20	*14	41	17.7	33	*16	5	27	11	5	14	12	2.71	.090	.50	SW
December.....	24.4	56	13	—4	20	60	17.1	34	21	2	27	7	5	19	8	1.69	.054	4.75	NW
Total or average..	51.2	95	July 3*	—4	Dec. 20	99	21.6	41	Mar 27*	1	May 9	164	77	122	132	43.08	.117	14.25	SW
For the State																			
January.....	32.9	69	22	—9	5	78		40	20			14	7	10	5	1.60	.052	.50	SW
February.....	32.5	70	22	—3	10	73		43	*27			8	7	13	10	1.19	.042	4.00	SW
March.....	41.0	79	*25	10	7	69		53	25			14	6	11	10	4.04	.130	4.50	NW
April.....	49.7	89	9	10	*2	79		50	6			9	8	13	12	3.02	.101	T	SW
May.....	58.6	98	31	30	18	68		45	*6			12	7	12	13	4.78	.154		SW
June.....	74.2	100	1	41	29	59		43	30			16	9	5	8	2.88	.096		SW
July.....	75.1	106	20	44	11	62		48	12			20	7	4	7	4.02	.130		SW
August.....	70.5	99	5	39	28	60		46	3			15	11	5	11	4.46	.144		SW
September.....	66.7	99	9	32	27	67		50	27			17	8	5	6	1.90	.063		SW
October.....	59.5	97	*2	25	29	72		47	1			10	7	14	16	6.29	.203		SW
November.....	41.2	75	1	11	15	64		43	14			11	7	12	11	4.02	.134	.20	SW
December.....	25.7	69	13	—12	20	81		46	10			9	7	15	8	2.13	.069	5.10	NW
Total or average..	52.3	106	July 20	—12	Dec. 20	118	.....	53	Mar 25	.....	.....	155	91	119	117	40.33	.110	10.30	NW

*And other dates.

TABLE IX.—SUMMARY OF METEOROLOGICAL DATA FOR 1914-1919 AND FOR ENTIRE PERIOD*

	1914	1915	1916	1917	1918	1919	Summary for period
At the Experiment Station							
Mean temperature.....degrees..	49.2	48.9	48.9	46.3	50.8	51.2	49.3
Highest temperature.....do...	95 June 24	91 July 16	99 Aug. 21	96 July 31	105 Aug. 6	95 July 3	106 Aug. 6, 1918
Lowest temperature.....do...	-18 Feb. 25	-13 Jan. 24	-7 Feb. 22	-19 Dec. 30	-19 Jan. 20	-4 Dec. 20	-24 Jan. 13, 1912
Range of temperature.....do...	113	104	106	115	124	99	129
Mean daily range of temperature.....do...	22	20.8	23.5	22	22.8	21.6	21.2
Greatest daily range of temperature.....do...	51 Feb. 25	42 April 8	50 Oct. 4	44 April 11	47 Oct. 16	41 Mar. 27	55 Oct. 6, 1895
Least daily range of temperature.....do...	2 Jan. 4	2 Jan. 12	0 Dec. 22	1 Feb. 1	0 Nov. 30	1 May 9	0 Dec. 21, 1916
Number of clear days.....	155	132	150	126	156	164	135
Number of partly cloudy days.....	59	72	74	75	72	77	87
Number of cloudy days.....	151	161	142	164	137	122	142
Number of days rain fell.....	114	132	141	134	130	132	130
Total yearly rainfall.....inches..	37.38	42.06	34.93	31.82	33.75	43.08	39.54
Greatest monthly rainfall.....do...	6.33 June	8.35	5.25	4.84 June	4.88 May	7.37 Aug.	11.84 Mar. 1913
Least monthly rainfall.....do...	1.23 July	1.17 March	1.07 Sept.	.44 Nov.	1.43 Nov.	.96 Feb.	.29 Sept. 1897
Prevailing direction of wind.....	SW	SW	SW	SW	SW	SW	SW
For the State							
Mean temperature.....degrees..	50.9	50.8	51.0	47.9	51.5	52.3	50.8
Highest temperature.....do...	106 July 12	99 July 31	104 Aug. 21	103 July 31	110 Aug. 6	106 July 20	113 July 4, 1897
Lowest temperature.....do...	-24 Feb. 25	-22 Jan. 24	-18 Feb. 14	-31 Dec. 11	-28 Jan. 20	-12 Dec. 20	-39 Feb. 10, 1899
Range of temperature.....do...	130	121	122	134	138	118	152
Greatest daily range of temperature.....do...	66 Feb. 25	54 April 8	56 Jan. 13	57 Nov. 10	57 Oct. 9	53 Mar. 25	67 Sept., 1897
Average number of days rain fell.....	106	123	119	118	117	117	119
Mean yearly rainfall.....inches..	35.42	40.83	37.24	36.51	36.54	40.33	37.90
Mean daily rainfall.....do...	.097	.111	.101	.099	.100	.110	.104
Prevailing direction of wind.....	SW	SW	SW	SW	SW	SW	SW

*Summary at Experiment Station for 32 years; for State, 37 years; for data from 1888-1913 at Experiment Station, and from 1883-1913 for State, see Bulletin 277.

TABLE X.—DATE OF FIRST AND LAST KILLING FROST, LENGTH OF GROWING SEASON, AND NUMBER OF TIMES THE MERCURY FELL BELOW ZERO AT THE EXPERIMENT STATION AT WOOSTER SINCE 1894

Year	Date of killing frosts		Length of growing season Number of days	Number of times mercury fell below zero				
	Last in spring	First in autumn		January	February	March	December	Total
1894.....	April 13	Oct. 7	177	.....	1	.....	2	3
1895.....	May 22	Sept. 23	129	5	5	.....	2	12
1896.....	April 24	Sept. 24	153	1	3	.....	.....	4
1897.....	May 26	Sept. 21	118	4	.....	.....	.....	4
1898.....	May 9	Oct. 16	160	1	2	.....	.....	3
1899.....	May 22	Sept. 30	131	2	8	.....	2	12
1900.....	May 10	Oct. 18	161	2	4	1	.....	7
1901.....	May 16	Oct. 2	139	2	.....	1	4	7
1902.....	April 28	Sept. 16	141	.....	4	.....	1	5
1903.....	May 4	Oct. 23	173	3	3	.....	4	10
1904.....	April 20	Sept. 22	155	7	8	.....	1	16
1905.....	May 24	Oct. 13	142	2	9	.....	.....	11
1906.....	May 10	Oct. 11	154	.....	6	1	.....	7
1907.....	May 12	Oct. 14	155	5	3	.....	.....	8
1908.....	April 17	Sept. 30	166	.....	1	.....	.....	1
1909.....	May 12	Oct. 19	160	1	1	.....	1	3
1910.....	May 15	Oct. 29	167	2	5	.....	.....	7
1911.....	May 5	Oct. 24	172	1	.....	.....	.....	1
1912.....	June 8	Sept. 30	114	11	7	.....	.....	18
1913.....	June 10	Sept. 23	105	.....	1	.....	.....	1
1914.....	May 2	Oct. 27	164	.....	6	.....	4	10
1915.....	May 27	Oct. 10	136	.....	1	.....	.....	4
1916.....	April 28	Sept. 19	154	2	1	1	5	9
1917.....	May 11	Oct. 1	144	2	8	.....	9	19
1918.....	May 2	Oct. 1	152	8	4	.....	.....	12
1919.....	April 27	Oct. 13	169	.....	.....	.....	2	2
Total or average..	May 10	Oct. 8	150	65	90	4	37	196

TABLE XI.—MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR 32 YEARS AT WOOSTER—Degrees

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	54	- 5	54	- 1	67	8	84	19	82	31	89	40	90	43	92	41	82	31	69	27	72	19	57	9
1889.....	54	12	54	- 5	71	16	80	21	90	30	87	38	92	49	90	45	92	37	76	23	65	16	65	18
1890.....	66	5	65	14	60	1	74	23	83	30	88	46	94	45	95	40	88	38	81	30	66	24	48	15
1891.....	51	12	60	3	61	0	83	21	82	28	89	44	89	49	99	53	98	42	88	25	71	10	58	16
1892.....	54	-20	54	6	65	10	76	28	86	38	90	56	98	48	92	49	88	36	81	25	67	16	61	- 2
1893.....	51	- 9	47	- 2	75	10	83	24	84	36	92	45	95	47	93	37	95	28	85	24	65	15	62	- 6
1894.....	54	1	64	- 1	75	14	92	24	83	35	93	37	98	41	96	41	93	36	80	28	65	31	57	- 7
1895.....	54	- 6	60	- 6	59	9	80	21	94	27	98	35	92	42	94	42	93	34	73	19	72	18	61	- 2
1896.....	53	- 2	58	- 6	65	4	89	19	86	44	87	39	92	45	93	41	92	34	71	21	69	13	56	1
1897.....	61	-18	54	0	69	11	79	21	78	31	88	37	96	50	92	42	96	28	86	25	65	12	60	- 2
1898.....	64	- 1	64	- 9	71	12	77	16	81	32	90	40	96	45	90	46	90	38	86	24	66	13	56	- 1
1899.....	55	- 6	57	-21	67	9	86	21	86	30	92	40	94	45	95	39	94	32	92	22	66	22	63	- 2
1900.....	54	- 5	65	-10	57	- 4	78	20	89	25	90	44	95	44	94	49	89	41	86	30	69	6	55	11
1901.....	53	- 4	40	0	69	- 1	82	22	82	23	91	38	95	50	94	47	86	34	79	26	67	18	64	- 1
1902.....	47	- 2	59	- 9	69	9	83	24	97	29	89	39	93	46	88	40	85	32	77	27	72	24	60	- 5
1903.....	60	- 3	63	- 9	76	21	74	19	89	27	88	41	94	42	92	43	89	32	79	26	71	9	49	- 2
1904.....	60	-21	57	-10	74	13	72	12	88	33	88	44	92	46	90	42	89	31	83	19	68	15	63	- 1
1905.....	59	- 8	43	-12	79	10	77	23	82	31	89	38	92	50	90	46	87	36	80	23	61	16	52	13
1906.....	72	6	65	-14	61	- 5	80	21	86	29	92	47	98	46	91	48	90	44	74	22	72	23	58	6
1907.....	67	-14	50	- 5	82	12	78	15	81	29	89	40	88	40	90	43	88	34	82	22	55	18	56	9
1908.....	51	4	56	- 3	75	21	80	24	89	30	91	36	92	46	95	43	95	28	84	24	68	17	59	7
1909.....	66	-11	60	- 2	60	12	81	13	84	31	89	42	89	45	89	41	90	30	81	22	72	21	66	- 6
1910.....	45	- 1	48	-12	84	18	81	23	82	25	90	35	94	44	94	38	91	34	85	24	66	14	49	0
1911.....	56	-11	62	- 9	67	4	77	16	92	28	94	46	101	43	97	41	87	37	75	22	65	10	61	- 7
1912.....	44	-24	55	-16	68	6	78	23	86	36	88	31	90	51	89	41	93	30	82	26	68	18	58	8
1913.....	57	4	62	- 2	74	1	83	20	86	25	96	32	95	42	96	45	93	28	81	24	73	12	56	9
1914.....	64	0	51	-18	67	6	87	19	91	29	95	36	95	45	94	49	93	34	82	26	74	13	59	- 11
1915.....	50	-13	60	0	54	8	88	21	78	28	87	37	91	46	88	36	90	33	80	23	74	19	52	10
1916.....	70	- 4	57	- 7	76	- 1	78	21	86	34	84	35	96	50	99	41	94	30	89	26	71	16	61	- 6
1917.....	56	-11	59	-15	72	2	82	20	86	31	92	37	96	46	95	49	85	33	76	24	65	9	48	-19
1918.....	41	-19	63	-18	76	17	78	22	89	31	89	40	95	42	105	45	81	33	79	27	68	19	61	- 20
1919.....	59	2	62	9	68	16	77	15	94	35	93	46	95	49	90	45	90	37	87	30	61	20	56	- 4
Extremes.....	72	-24	65	-21	84	- 5	92	12	97	25	98	31	101	40	105	37	98	28	92	19	73	6	66	-19

TABLE XL.—MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR 32 YEARS
FOR THE STATE—Degrees—(Concluded)

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	68	—15	68	—10	77	— 9	92	19	91	23	102	34	97	42	102	35	92	26	80	22	80	17	62	1
1889.....	61	8	70	—14	82	—10	88	15	96	26	92	38	98	46	100	40	98	28	82	17	77	9	73	10
1890.....	75	1	73	5	69	— 4	86	20	92	28	101	39	101	43	103	40	92	33	85	29	76	17	65	3
1891.....	65	3	80	— 2	74	— 5	95	15	93	25	98	40	95	41	101	39	99	36	93	20	76	0	66	9
1892.....	61	—27	74	— 1	80	— 6	90	14	99	28	101	47	103	40	99	45	96	34	89	20	76	8	70	—12
1893.....	63	—24	68	—14	87	— 8	93	20	94	23	102	40	101	42	101	37	100	24	95	15	76	— 2	72	— 5
1894.....	66	—16	76	—15	91	— 3	97	16	98	31	102	29	105	36	104	36	103	27	90	15	79	4	70	—27
1895.....	62	—19	70	—24	86	— 7	90	16	102	19	105	29	106	34	103	31	105	25	84	8	85	5	79	—13
1896.....	70	—14	78	—18	73	— 7	103	15	99	36	98	33	102	39	102	35	100	25	85	17	79	7	67	—15
1897.....	71	—27	72	— 9	82	5	92	11	91	25	102	31	113	44	101	38	105	25	97	20	76	8	71	— 7
1898.....	71	—18	72	—20	84	5	87	10	92	29	99	39	105	38	100	40	102	33	96	20	76	2	67	—18
1899.....	66	—15	67	—39	76	0	94	6	96	28	102	36	105	41	104	39	107	26	94	20	79	18	69	— 7
1900.....	67	—20	80	—20	70	9	87	15	97	20	96	38	103	38	103	40	100	33	93	23	80	0	65	— 2
1901.....	67	—10	60	—20	84	8	91	18	90	26	103	30	109	48	101	42	98	29	88	20	79	10	73	—19
1902.....	63	—11	66	—17	82	4	90	17	98	24	98	33	100	43	97	37	94	24	88	21	87	17	63	—11
1903.....	73	—13	69	—20	85	11	88	10	93	22	95	35	104	42	101	38	98	26	93	15	88	2	57	—11
1904.....	70	—30	75	—18	86	— 1	81	7	95	27	98	37	99	41	97	38	99	23	92	15	75	0	69	—16
1905.....	65	—17	54	—22	85	— 5	89	12	93	26	99	34	100	44	96	41	95	30	89	20	71	10	58	— 2
1906.....	79	—14	72	—23	74	—12	91	18	94	24	100	34	98	43	101	43	98	36	91	18	82	14	68	—15
1907.....	75	—23	66	—19	96	— 2	86	10	89	24	96	36	98	37	96	40	93	28	88	19	71	11	69	— 2
1908.....	59	— 8	66	—22	85	12	91	16	96	25	100	33	102	42	104	37	100	24	90	15	77	5	68	— 2
1909.....	74	—17	70	—17	70	6	90	13	91	24	96	36	97	40	96	35	95	25	86	16	80	15	75	—20
1910.....	62	—24	68	—25	90	12	88	19	88	21	97	33	98	43	100	36	93	34	94	18	78	11	63	—10
1911.....	68	—19	76	— 2	81	— 1	86	8	101	25	101	40	107	41	104	34	97	33	88	20	79	8	79	— 3
1912.....	57	—37	68	—25	80	— 3	89	15	91	31	93	28	101	42	95	40	99	29	93	23	82	3	74	— 5
1913.....	70	3	77	—15	80	— 8	90	18	95	23	105	29	103	40	102	39	102	26	96	18	78	2	65	— 3
1914.....	75	—17	67	—24	78	— 2	91	12	102	26	104	22	106	41	101	41	97	26	91	17	80	5	74	—19
1915.....	64	—22	70	— 9	61	3	96	12	89	27	96	31	99	43	97	34	96	27	89	20	80	11	62	— 1
1916.....	75	— 8	69	—18	87	—10	89	18	95	29	94	31	103	45	104	39	101	27	93	22	80	5	72	—15
1917.....	74	—16	75	—21	84	— 9	90	13	93	26	100	33	103	43	101	38	93	28	87	18	80	5	60	—31
1918.....	49	—28	78	—24	82	5	83	18	98	26	98	33	101	38	110	41	89	27	89	22	75	12	72	—12
1919.....	69	— 9	70	— 3	79	10	89	10	98	30	100	41	106	44	99	39	99	32	97	25	75	11	69	—12
Extremes.....	79	—37	80	—39	96	—12	103	6	102	19	105	28	113	34	110	31	107	23	97	8	88	— 2	79	—31

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Strongsville														
1897.....	0.91	1.62	3.29	3.88	5.99	1.88	5.56	3.25	1.13	0.87	7.02	1.92	37.32	1897
1898.....	5.47	3.75	4.82	2.37	3.43	5.60	4.25	5.69	2.72	5.59	3.25	7.39	54.33	1898
1899.....	4.35	2.32	5.25	3.11	5.58	2.10	5.75	.61	3.14	2.86	1.55	6.36	42.98	1899
1900.....	3.22	5.53	3.01	2.22	1.85	1.36	4.73	2.49	3.56	2.22	4.91	1.94	37.04	1900
1901.....	2.73	2.20	4.35	4.76	5.14	3.32	3.15	7.46	5.51	.47	2.51	5.34	48.94	1901
1902.....	1.17	1.40	2.64	2.91	4.29	9.34	7.39	4.52	5.58	2.73	2.35	3.34	47.66	1902
1903.....	2.37	2.97	3.18	6.68	1.45	3.78	6.49	8.72	1.88	3.09	2.70	2.62	45.93	1903
1904.....	6.51	3.59	4.68	3.47	6.07	1.45	5.80	3.42	2.73	1.20	.50	3.87	43.35	1904
1905.....	2.48	2.73	3.24	3.97	4.38	2.18	5.04	4.11	3.50	2.95	2.92	1.66	39.16	1905
1906.....	2.03	2.06	.....	1.93	1.01	4.67	2.72	4.30	6.70	.....	4.77	5.12	.....	1906
1907.....	5.21	1.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1907
1908.....	.....	.....	.....	.....	2.82	2.17	3.70	3.10	1.00	1.60	1.08	1.90	.....	1908
1909.....	2.48	2.56	.....	3.49	4.13	3.20	4.40	3.60	2.71	2.60	2.80	1.30	.....	1909
1910.....	4.80	2.21	1.10	.....	3.05	2.50	1.00	1.37	4.85	3.90	3.98	2.99	.....	1910
1911.....	.....	1.16	1.85	3.03	1.95	1.80	.80	3.28	5.33	3.85	.....	1.51	.....	1911
1912.....	1.38	1.49	2.91	5.12	3.62	1.80	6.88	4.74	4.34	2.45	.20	1.89	36.77	1912
1913.....	4.50	1.45	9.30	2.08	2.15	1.30	2.60	1.70	3.30	3.59	2.61	1.13	35.71	1913
1914.....	2.00	1.90	2.40	4.95	5.30	3.40	2.00	5.32	.40	.....	.....	.....	.....	1914
1915.....	1.79	1.45	.....	.....	2.25	3.46	3.86	2.47	3.86	.95	1.41	1.52	.....	1915
1916.....	3.10	.48	1.26	2.22	2.72	5.02	1.20	1.24	3.60	2.37	2.01	1.19	26.41	1916
1917.....	1.92	1.40	2.88	3.42	4.83	2.64	2.32	2.24	2.11	4.21	.87	1.47	30.31	1917
1918.....	1.64	1.04	1.35	2.24	4.87	4.03	2.17	1.41	4.16	1.85	.....	.....	.....	1918
1919.....	*1.62	*1.39	*2.16	*3.73	4.28	1.84	4.28	7.03	2.44	6.93	5.21	*1.78	42.69	1919
Average.....	2.94	2.09	3.31	3.45	3.69	3.13	3.91	3.73	3.39	2.81	2.77	2.81	40.61	

*North Royalton records.

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Continued)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Germantown														
1905	2.92	1.07	6.93	3.45	7.70	3.00	3.80	7.90	3.56	4.10	2.24	2.28	.....	1905
1906	7.22	6.32	6.25	1.88	1.34	2.88	6.24	7.46	2.30	1.65	3.80	4.32	42.79	1906
1907	2.11	6.33	4.24	2.26	3.20	3.65	4.10	1.93	5.64	2.92	3.25	3.22	43.96	1907
1908	3.41	7.67	2.07	4.53	4.47	1.42	3.86	1.36	1.35	.27	1.70	1.31	31.95	1908
1909	3.00	4.25	.10	5.58	6.98	5.93	4.50	3.54	3.89	3.13	1.95	4.00	49.45	1909
1910	3.00	4.25	.10	1.87	5.08	1.58	3.95	1.11	3.96	7.60	3.96	2.85	36.41	1910
1911	3.00	1.46	3.00	6.01	1.36	2.67	1.78	4.56	3.16	4.48	3.06	3.81	42.35	1911
1912	3.23	1.68	4.29	6.51	3.49	2.24	4.78	9.05	2.50	2.79	.72	3.30	45.58	1912
1913	8.40	2.05	7.32	5.25	2.62	2.40	3.49	2.23	2.33	2.56	4.80	.88	44.33	1913
1914	2.62	3.75	3.05	2.47	1.43	2.63	2.51	6.21	5.18	2.19	2.03	2.72	31.79	1914
1915	2.95	1.75	1.34	1.54	5.58	5.01	5.38	7.40	5.62	2.12	2.32	3.53	42.54	1915
1916	6.34	1.41	3.20	2.13	3.58	5.22	1.76	3.06	2.78	1.91	1.91	2.80	36.10	1916
1917	4.15	1.56	4.31	3.27	4.11	4.37	3.43	3.56	1.82	3.77	.50	1.95	36.80	1917
1918	4.07	2.14	1.71	3.51	4.18	3.51	1.94	6.31	4.60	1.85	1.66	3.32	38.80	1918
1919	1.08	.68	4.85	4.16	4.53	1.50	4.34	3.73	1.02	7.93	3.97	2.30	40.09	1919
Average.....	4.04	2.58	3.76	3.63	3.98	3.07	3.66	4.61	2.85	3.28	2.32	2.91	40.07	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Continued)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Carpenter														
1903.....				3.75	5.69	5.07	4.23	1.02	1.02	2.60	2.73	3.28	.....	1903
1904.....	3.74	2.89	5.07	3.03	2.69	3.16	3.79	2.71	2.08	1.10	.18	3.40	33.84	1904
1905.....	1.02	1.35	4.07	2.70	7.02	5.11	3.77	4.11	1.02	5.20	2.45	3.51	41.33	1905
1906.....	3.53	1.85	3.82	1.43	1.40	6.39	1.40	2.92	3.24	2.58	3.50	3.50	35.61	1906
1907.....	8.94	2.23	6.13	3.57	3.47	4.49	4.84	4.10	2.94	2.38	2.14	1.72	47.00	1907
1908.....	1.37	4.31	7.80	5.15	3.36	2.92	3.74	3.50	.48	.85	1.37	2.13	37.98	1908
1909.....	3.05	5.72	2.77	4.10	4.29	7.63	4.18	2.18	.86	2.12	.90	2.05	39.85	1909
1910.....	6.40	4.70	.20	3.23	2.91	2.35	3.40	1.74	.99	1.68	1.42	2.80	31.82	1910
1911.....	5.56	3.08	2.26	3.90	2.06	6.14	1.19	4.69	5.18	3.68	2.20	4.01	43.95	1911
1912.....	1.48	2.44	3.39	4.04	2.90	2.92	5.46	2.56	2.51	1.80	.38	2.09	31.97	1912
1913.....	6.78	1.98	1.71	2.74	4.23	2.29	2.64	2.38	2.07	2.89	2.34	2.36	34.41	1913
1914.....	1.17	2.05	1.72	2.94	2.33	2.53	1.23	4.88	1.07	2.98	1.08	4.65	28.53	1914
1915.....	2.91	.95	1.05	1.22	4.95	4.40	3.90	2.76	3.64	1.96	3.35	4.85	35.94	1915
1916.....	4.91	3.33	3.83	1.95	4.72	3.57	2.20	2.95	1.89	2.22	1.46	3.29	36.34	1916
1917.....	5.28	1.37	6.19	3.87	3.61	5.28	5.20	1.58	1.52	4.71	.65	.65	39.91	1917
1918.....	2.37	2.99	4.07	4.54	2.81	4.85	1.48	3.05	1.55	3.23	2.61	4.90	38.45	1918
1919.....	2.78	1.53	3.02	2.21	5.74	2.72	5.03	6.30	1.20	5.34	4.85	4.08	44.80	1919
Average.....	3.83	2.68	3.51	3.19	3.77	4.42	3.39	3.14	1.95	2.78	1.98	3.13	37.61	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Continued)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Marietta														
1916.....	3.24	2.15	2.78	1.80	5.55	4.40	2.12	4.08	2.23	2.74	1.95	3.53	36.57	1916
1917.....	4.50	1.96	4.07	4.55	4.49	6.36	3.91	3.04	1.69	5.50	0.73	0.91	41.71	1917
1918.....	3.15	2.33	3.88	4.84	4.15	1.96	2.75	4.71	2.58	3.81	1.64	4.47	40.27	1918
1919.....	2.77	1.36	3.13	2.85	3.97	3.86	3.07	5.89	2.66	5.30	6.67	4.09	45.62	1919
Average.....	3.41	1.95	3.46	3.51	4.54	4.14	2.96	4.43	2.29	4.34	2.75	3.25	41.04	
Canfield														
1916.....	.....	.....	.....	.....	5.22	5.12	3.45	1.49	2.38	2.19	.....	1.96	.....	1916
1917.....	2.33	1.05	1.91	1.97	2.74	5.41	3.63	2.39	2.19	5.74	0.73	1.23	31.23	1917
1918.....	2.41	1.84	2.26	3.97	5.08	.....	1.93	1.25	3.29	3.26	1.70	2.97	.....	1918
1919.....	1.70	1.26	2.75	1.93	5.17	1.34	3.20	5.82	2.58	4.78	2.45	1.74	34.72	1919
Average.....	2.15	1.38	2.31	2.26	4.55	3.96	3.05	2.74	2.61	3.99	1.63	1.97	.....
Mt. Healthy														
1916.....	5.91	1.76	2.57	2.68	4.01	5.13	1.45	3.29	2.03	1.05	1.78	2.73	34.39	1916
1917.....	5.04	1.61	3.67	4.45	5.13	4.81	4.61	1.41	3.79	4.50	0.36	2.38	41.76	1917
1918.....	3.98	2.63	4.01	3.26	.....	7.75	3.30	5.34	3.90	2.94	1.70	3.54	.....	1918
1919.....	.....	.....	4.60	3.77	4.39	1.92	3.13	1.96	2.94	10.70	4.15	2.55	.....	1919
Average.....	4.98	2.00	3.71	3.54	4.51	4.90	3.12	3.00	3.16	4.80	2.00	2.80	.....

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Concluded)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Paulding														
1916.....	4.63	0.68	2.51	2.02	5.98	6.01	1.02	1.28	1.78	1.29	2.07	1.87	31.14	1916
1917.....	.....	0.52	3.98	3.85	4.82	4.14	3.29	1.70	1.67	6.39	0.49	0.59	.....	1917
1918.....	2.04	1.19	.....	.....	3.22	1.97	1.74	1.02	.....	2.01	2.73	4.44	.....	1918
1919.....	1.04	1.64	4.02	2.75	4.86	3.34	.57	2.48	1.73	6.32	1.41	0.34	30.50	1919
Average.....	3.33	1.01	3.50	2.87	4.72	3.86	1.65	1.62	1.73	4.00	1.67	1.81	.....
Batavia														
1916.....	6.29	2.39	4.59	1.94	3.93	4.27	1.31	4.97	2.25	2.14	1.97	3.64	39.69	1916
1917.....	4.51	1.59	3.93	3.73	4.44	3.03	4.12	1.84	2.23	3.00	0.63	1.48	34.53	1917
1918.....	5.33	0.95	2.54	2.73	3.94	5.93	1.36	5.88	2.46	3.02	2.15	4.73	41.02	1918
1919.....	1.95	0.87	5.31	3.39	4.74	2.98	3.85	1.76	1.85	9.56	4.64	3.46	44.36	1919
Average.....	4.52	1.45	4.09	2.95	4.26	4.05	2.66	3.61	2.20	4.43	2.35	3.33	39.90	

TABLE XIII.—MONTHLY MEAN TEMPERATURE AT DISTRICT AND COUNTY EXPERIMENT FARMS—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Marietta														
1916.....	38.6	29.7	38.4	50.6	63.8	65.9	76.5	74.6	63.4	53.7	43.1	31.8	52.5	1916
1917.....	30.6	29.8	40.7	51.7	56.0	67.3	72.8	72.2	62.5	49.2	39.3	24.0	49.7	1917
1918.....	19.1	35.2	46.4	51.4	67.7	69.4	71.0	77.4	60.2	58.1	42.4	41.4	53.3	1918
1919.....	33.9	35.0	44.4	51.4	61.7	73.8	75.2	70.6	66.8	62.0	43.6	28.2	53.9	1919
Average.....	30.5	32.4	42.5	51.3	62.3	69.1	73.9	73.7	63.2	55.7	47.1	31.3	52.3	
Canfield														
1916.....					59.7	61.8	72.8	71.2	62.6	52.4	41.3	28.8	.....	1916
1917.....	27.0	22.6	37.3	46.1	52.3	65.9	71.6	70.0	59.4	45.6	36.2	21.0	46.2	1917
1918.....	13.4	28.5	41.0	47.2	65.0	.....	69.4	73.4	55.6	54.0	40.7	38.0	.....	1918
1919.....	31.3	30.2	38.6	47.2	56.0	70.8	72.1	66.6	62.6	54.2	39.6	23.4	49.4	1919
Average.....	23.9	27.1	39.0	46.8	58.2	66.2	71.5	70.3	60.0	51.5	39.4	27.8	.....
Mt. Healthy														
1916.....	37.8	30.0	38.7	51.4	64.8	66.4	77.6	76.0	65.6	55.8	45.6	31.8	53.5	1916
1917.....	32.0	30.8	42.8	51.5	56.6	68.5	73.0	72.8	64.6	48.2	41.9	21.7	50.4	1917
1918.....	15.6	33.6	46.6	50.5	66.4	68.6	71.0	77.0	60.4	57.5	44.0	41.4	52.7	1918
1919.....			45.8	51.0	59.1	74.3	76.6	72.4	70.3	61.2	43.1	28.0	.....	1919
Average.....	28.5	31.5	43.5	51.1	61.7	69.4	74.5	74.5	65.2	55.7	43.6	30.7	.....

TABLE XIII.—MONTHLY MEAN TEMPERATURE AT DISTRICT AND COUNTY EXPERIMENT FARMS—Degrees
(Concluded)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Paulding														
1916.....	31.4	24.6	33.2	49.0	60.4	64.4	78.8	76.8	64.0	52.4	41.2	25.2	50.1	1916
1917.....	24.6	21.8	38.6	47.0	53.2	65.7	71.2	70.4	60.8	44.0	37.8	19.7	46.2	1917
1918.....	10.8	28.0	43.6	48.0	66.0	68.2	71.0	76.8	67.6	54.4	41.4	37.6	51.3	1918
1919.....	31.4	31.2	39.2	49.2	57.7	73.4	75.2	70.5		56.8	40.0	23.8		1919
Average.....	24.5	26.4	38.6	48.3	59.3	67.9	74.0	73.6	64.1	51.9	40.1	26.6	49.2	
Batavia														
1916.....	38.8	30.7	39.4	51.8	64.6	67.0	78.3	75.8	65.0	55.3	45.8	32.2	53.7	1916
1917.....	32.1	29.2	42.6	52.1	57.2	68.6	73.6	73.6	65.4	48.6	41.8	23.0	50.6	1917
1918.....	17.4	35.0	49.5	52.0	68.2	71.4	73.2	78.3	61.2	60.2	44.4	42.2	54.4	1918
1919.....	35.6	36.0	44.8	53.2	61.4	75.4	76.9	72.8	70.8	63.0	42.4	28.1	55.0	1919
Average.....	31.0	32.7	44.1	52.3	62.8	70.6	75.5	75.1	65.6	56.8	43.6	31.4	53.4	
Germantown														
1915.....	26.6	38.2	34.8	56.6	59.8	68.4	72.8	68.0	68.0	56.7	46.0	31.8	52.3	1915
1916.....	36.4	28.6	37.2	51.0	63.5	65.8	78.2	75.4	65.0	54.0	43.8	30.7	52.5	1916
1917.....	29.4	29.4	41.8	50.8	55.3	67.3	72.1	71.8	62.9	47.6	41.0	21.3	49.2	1917
1918.....	15.2	32.2	44.3	50.0	66.4	69.6	71.6	77.6	58.6	58.6	43.0	41.6	52.4	1918
1919.....	34.2	34.1	42.6	51.2	58.4	74.5	75.8	72.0	68.3	60.5	42.6	26.7	53.4	1919
Average.....	28.4	32.5	40.1	51.9	60.7	69.1	74.1	73.0	64.6	55.5	43.3	30.4	52.0	

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS
(miles) AT THE EXPERIMENT STATION, WOOSTER,
JULY-OCTOBER, 1916

Date	July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1.....	0.021	34	0.241	47	0.200	30	0.109	27
2.....	.230	33	.175	44	.071	39	.116	60
3.....	.244	54	.214	46	.204	58	.132	34
4.....	.115	65	.245	32	.186	36	.111	29
5.....	.206	50	.154	37	.172	61	.148	41
6.....	.228	43	.192	32	.224	54	.141	36
9.....	.220	38	.249	25	.072	39	.124	43
8.....	.216	29	.278	46	.247	61	.149	28
9.....	.202	40	.132	30	.168	39	.120	54
10.....	.100	35	.240	46	.168	61	.090	104
11.....	.224	39	.169	30	.261	40	.086	38
12.....	.266	45	.162	41	.197	46	.089	32
13.....	.250	50	.267	55	.240	89	.158	78
14.....	.118	26	.216	54	.183	23	.063	98
15.....	.154	38	.222	27	.015	100	.090	30
16.....	.276	73	.175	36	.168	41	.046	83
17.....	.239	21	.194	28	.164	37	.115	97
18.....	.012	41	.198	22	.059	62	.091	68
19.....	.175	41	.207	21	.165	45	.119	125
20.....	.205	40	.178	31	.132	48	.133	80
21.....	.250	53	.218	25	.219	68	.121	202
22.....	.199	34	.216	30	.109	38	.017	67
22.....	.276	52	.269	54	.131	82	.069	44
24.....	.264	34	.177	66	.103	53	.068	23
25.....	.196	33	.222	46	.126	80	.034	29
26.....	.104	22	.147	27	.138	51	.073	107
27.....	.197	33	.187	32	.170	51	.082	54
28.....	.238	33	.306	41	.260	51	.086	61
29.....	.266	36	.194	40	.074	76	.069	35
30.....	.257	33	.162	22	.093	123	.109	60
31.....	.227	30	.191	29	.....	.....	.077	26
Total.....	6.177	1,218	6.397	1,095	4.719	1,727	3.035	1,893
Average.....	.199	39	.206	35	.157	58	.098	61

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, APRIL-OCTOBER, 1917—(Continued)

Date	April		May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1.....	.045	89	.097	163	.079	38	.230	49	.295	44	.116	28	.052	83
2.....	.095	118	.116	105	.111	60	.242	54	.286	11	.157	32	.083	22
3.....	.079	50	.152	64	.209	98	.226	43	.239	90	.124	20	.042	57
4.....	.162	124	.124	122	.169	34	.161	31	.211	29	.136	46	.086	66
5.....	.052	154	.084	97	.092	33	.232	22	.262	32	.166	24	.003	96
6.....	.032	199	.010	76	.236	57	.134	39	.242	39	.117	66	.075	56
7.....	.096	163	.016	31	.291	81	.227	45	.250	42	.020	21	.048	42
8.....	.076	151	.093	62	.152	65	.128	71	.192	58	.089	46	.077	94
9.....	.086	116	.110	94	.047	47	.179	38	.149	41	.127	31	.042	34
10.....	.092	117	.106	67	.063	67	.128	53	.142	30	.176	86	.057	49
11.....	.156	73	.146	75	.162	59	.061	30	.188	23	.112	38	.032	36
12.....	.149	113	.103	134	.179	34	.142	29	.247	27	.130	27	.039	83
13.....	.116	174	.106	126	.142	48	.072	37	.106	26	.143	35	.043	57
14.....	.036	47	.208	129	.278	73	.068	44	.167	31	.141	24	.060	71
15.....	.051	70	.178	81	.099	72	.171	44	.184	25	.121	22	.081	76
16.....	.061	36	.164	66	.110	56	.127	25	.168	22	.188	65	.108	48
17.....	.099	45	.138	56	.169	47	.146	37	.165	51	.112	29	.075	35
18.....	.074	47	.192	58	.232	36	.138	37	.170	23	.108	26	.053	97
19.....	.163	57	.291	87	.264	47	.163	33	.206	22	.073	10	.051	64
20.....	.198	82	.183	81	.240	55	.204	28	.216	22	.165	40	.052	42
21.....	.188	98	.123	75	.196	37	.232	30	.208	2	.050	48	.038	37
22.....	.024	83	.076	95	.220	47	.219	26	.055	19	.123	42	.041	30
23.....	.102	60	.168	115	.134	47	.220	21	.056	26	.120	50	.059	54
24.....	.134	101	.166	109	.134	82	.220	32	.100	50	.117	35	.079	85
25.....	.083	110	.151	81	.166	27	.184	31	.239	60	.098	25	.004	83
26.....	.097	76	.087	50	.231	45	.229	31	.196	45	.108	30	.042	90
27.....	.081	46	.109	80	.169	42	.209	52	.184	41	.093	47	.038	58
28.....	.119	56	.063	64	.143	43	.214	29	.168	29	.122	65	.044	82
29.....	.069	79	.133	143	.154	72	.252	38	.082	36	.108	30	.095	66
30.....	.041	39	.157	46	.166	31	.263	45	.083	43	.135	105	.055	70
31.....	.....	.....	.267	87	.....	.....	.313	44	.068	6	.....	.....	.053	41
Total.....	2.856	2,773	4.117	2,709	5.037	1,580	5.734	1,168	5.524	1,065	3.595	1,193	1,806	1,924
Average.....	.095	92	.133	87	.168	53	.185	38	.178	34	.120	40	.058	62

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, APRIL-OCTOBER, 1918—(Continued)

Date	April		May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1.....	.....	.....	.137	111	.151	62	.245	85	.199	35	.133	44	.003	86
2.....	.....	.....	.161	125	.163	27	.166	30	.204	44	.193	33	.077	43
3.....	.....	.....	.231	80	.169	17	.251	65	.173	27	.120	47	.096	37
4.....	.....	.....	.231	76	.183	30	.179	21	.279	45	.070	25	.089	20
5.....	.....	.....	.207	62	.161	25	.255	40	.252	39	.101	85	.104	61
6.....	.....	.....	.247	61	.141	55	.247	60	.305	36	.217	50	.183	82
7.....	.....	.....	.211	117	.263	78	.199	51	.289	32	.007	19	.062	85
8.....	.....	.....	.206	96	.167	5	.203	60	.277	62	.131	30	.073	34
9.....	.....	.....	.114	65	.226	58	.246	78	.187	52	.141	11	.077	23
10.....	.....	.....	.189	147	.183	41	.219	55	.147	29	.068	51	.071	33
11.....	.....	.....	.029	51	.193	41	.234	44	.244	30	.053	24	.075	12
12.....	.....	.....	.....	91	.270	132	.092	48	.076	30	.044	60	.066	33
13.....	.....	.....	.....	78	.170	77	.171	56	.280	37	.072	37	.094	89
14.....	.....	.....	.104	40	.168	43	.218	42	.236	53	.072	21	.109	86
15.....	.138	25	.124	30	.166	33	.219	28	.201	32	.131	24	.086	38
16.....	.105	42	.160	42	.187	35	.131	19	.238	30	.100	43	.096	44
17.....	.150	71	.186	32	.273	64	.237	43	.154	48	.076	56	.088	26
18.....	.163	103	.194	40	.251	51	.077	31	.301	76	.092	30	.116	90
19.....	.108	123	.162	52	.276	75	.229	53	.209	73	.028	19	.072	67
20.....	.096	132	.156	66	.245	56	.227	31	.219	47	.061	60	.000	75
21.....	.095	106	.098	32	.123	79	.263	29	.200	45	.082	79	.070	41
22.....	.110	140	.218	42	.088	76	.221	30	.104	22	.077	35	.064	33
23.....	.103	71	.229	60	.143	82	.132	23	.205	28	.100	26	.038	16
24.....	.128	79	.133	21	.187	20	.169	28	.213	50	.077	17	.060	50
25.....	.120	84	.135	32	.135	48	.221	35	.202	20	.169	23	.015	47
26.....	.080	116	.294	53	.107	34	.215	53	.133	20	.069	88	.019	28
27.....	.101	111	.318	50	.196	49	.196	36	.096	20	.087	60	.047	46
28.....	.226	123	.238	56	.176	59	.224	26	.119	66	.142	51	.095	26
29.....	.201	122	.200	44	.200	36	.161	41	.083	44	.138	57	.055	30
30.....	.134	62	.079	31	.270	50	.174	63	.129	34	.162	28	.023	30
31.....	.....	.....	.281	28	.....	.....	.188	60	.088	42	.....	.....	.041	126
Total.....	2.058	1,510	5 272	1,911	5.631	1,538	6.209	1,364	6.042	1,248	3.013	1,233	2.164	1,487
Average...	.129	94	.182	.62	.188	51	.200	44	.195	40	.100	41	.070	48

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS
(miles) AT THE EXPERIMENT STATION, WOOSTER,
APRIL-OCTOBER, 1919—(Concluded)

Date	April		May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1.....			.031	89	.206	1	.227	1	.107	47	.077	25	.150	43
2.....			.168	90	.169	17	.263	2	.218	49	.049	10	.170	24
3.....			.163	63	.257	10	.287	20	.182	21	.134	30	.110	10
4.....			.177	86	.135	8	.283	25	.110	5	.184	14	.122	40
5.....			.137	74	.176	39	.206	15	.....	63	.097	10	.171	45
6.....			.093	36	.239	40	.225	62	.264	58	.049	8	.133	69
7.....			.135	55	.210	52	.259	56	.236	32	.117	13	.106	50
8.....			.109	67	.184	45	.266	58	.193	45	.129	44	.100	25
9.....			.017	120	.197	30	.268	40	.153	32	.146	24	.008	97
10.....	.114	74	.045	34	.224	29	.277	52	.213	41	.098	16	.082	48
11.....	.136	93	.032	69	.248	31	.229	51	.167	9	.129	9	.042	46
12.....	.060	46	.018	65	.246	49	.198	39	.132	41	.141	4	.274	39
13.....	.079	65	.098	59	.252	30	.221	31	.163	35	.095	8	.171	33
14.....	.031	17	.141	25	.247	31	.161	44	.172	45	.101	17	.086	33
15.....	.062	88	.152	69	.295	51	.200	50	.177	28	.055	23	.037	12
16.....	.063	93	.091	30	.240	24	.213	45	.150	21	.098	52	.017	16
17.....	.082	98	.090	64	.211	41	.269	54	.101	58	.123	42	.078	71
18.....	.067	105	.114	45	.190	9	.227	29	.184	48	.112	6	.082	6
19.....	.123	47	.173	29	.283	41	.182	28	.250	22	.070	80	.058	32
20.....	.147	80	.061	60	.270	38	.097	67	.074	32	.078	50	.031	18
21.....	.110	41	.122	38	.219	45	.202	13	.089	53	.072	90	.017	17
22.....	.135	36	.128	7	.264	50	.168	65	.140	19	.044	20	.040	27
23.....	.127	56	.079	31	.216	36	.234	17	.179	30	.061	20	.044	16
24.....	.163	175	.051	13	.200	62	.237	45	.220	45	.117	45	.017	28
25.....	.076	119	.092	14	.126	67	.218	21	.221	33	.092	63	.017	72
26.....	.117	133	.132	25	.149	39	.238	41	.180	63	.098	37	.087	50
27.....	.130	33	.162	24	.077	61	.257	20	.147	44	.126	28	.....	40
28.....	.053	34	.187	39	.249	85	.276	20	.136	40	.080	11	.210	65
29.....	.069	64	.148	8	.218	33	.257	56	.146	12	.127	44	.043	38
30.....	.078	81	.172	13	.209	40	.200	18	.192	42	.056	35	.056	48
31.....			.134	8	.....	.....	.....	25	.158	75	.....	.....	.023	29
Total	2.022	1,572	3.451	1,449	6.406	1,134	6,845	1,110	5.054	1,188	3.055	878	2.585	1,187
Average.....	.096	75	.111	47	.213	38	.228	36	.168	38	.102	29	.086	38

NOTES ON THE WEATHER AT THE EXPERIMENT STATION AT
WOOSTER, 1919

SUMMARY BY MONTHS

LATITUDE 40° 47' 01"—LONGITUDE 81° 55' 48"
ELEVATION ABOVE SEA LEVEL, 1,080 FEET

JANUARY

The mean temperature was above the average for January, the rainfall deficient, and the snowfall very light. The mercury did not register as low as zero at any time during the month. The lowest was 2° above on the 4th, and the highest was 59° on the 22d. The total precipitation was 1.20 inches.

FEBRUARY

The mean temperature was 31.7°, which is 5.4° above the average for February. The highest, 62°, was on the 28th and the lowest, 9° on the 9th. The total precipitation was only .96 of an inch. This is 1.65 inches below the 32-year average. The snowfall was light, the total amount being 4 inches.

MARCH

The mean temperature was above the average, and the weather generally was fine for March. A noticeable feature was the absence of the usual high winds and real stormy days. The highest temperature was 68° on the 25th and the lowest was 16° on the 7th. The total precipitation was 3.82 inches.

APRIL

The mean temperature for April was 48.7°. The highest was 77° on the 9th and 10th. The lowest was 15° on the 2d. A warm period prevailed from the 5th to the 11th, but the latter part of the month was cold with heavy frosts and freezing temperatures. The total precipitation was 2.66 inches.

MAY

The month of May was unusually wet, delaying spring planting and seeding. The bulk of the corn crop was not planted until the last week in May and the first week in June. The average temperature for the month was 58.1° and the total rainfall was 6.17 inches. Rain fell on 18 days. The highest temperature was 94° on the 31st.

JUNE

The average temperature was 73.2°, this being the highest mean on record at this Station for June. The highest for the month was 93° on the 1st and 19th. The lowest was 46° on the 29th. The rainfall was light, being only 2.62 inches, which is 1.42 inches below the average for June.

JULY

The mean temperature was 73.6° , which is above the average for July. The highest temperature recorded for the month was 95° on the 3rd, 4th and 14th, while a temperature of 90° or above, was recorded on 11 days. The lowest was 49° on the 11th. The total rainfall was 6.42 inches. This is 2.24 inches above the 32-year average. A severe electrical storm on the 9th and 10th.

AUGUST

The mean temperature for August was 69.3° , which is slightly below the average. The highest, 90° , occurred on the 5th and 23rd and the lowest, 45° , on the 11th. Heavy rainfall on the 5th and 6th, with a very severe electrical storm on the 5th. Rain fell on 16 days. The total fall for the month was 7.37 inches. This is 3.73 inches above the average for August. The wet weather seriously interfered with the harvesting and threshing of grain.

SEPTEMBER

The mean temperature for September was 65.1° , which is 1.5° above the average for this month. The highest, 90° , occurred on the 8th, and the lowest, 37° , on the 26th. The weather was very fine throughout the month, a very light frost on the 26th and 27th, doing no injury to crops. The rainfall was light, the total being 1.46 inches.

OCTOBER

The weather for October was warm and wet. The mean temperature was 7.3° above the 32-year average. The highest, 87° , occurred on the 2nd and 3rd; the lowest, 30° , on the 18th. The first killing frost of the season occurred on the 13th. Rain fell on 19 days; the total for the month was 6 inches. This is the greatest October rainfall on record at this Station.

NOVEMBER

The mean temperature for the month was 40.6° , which is very near the average for November. The highest, 61° , occurred on the 1st, and the lowest, 20° , on the 14th, 15th and 20th. Rain or snow fell on 16 days. The total precipitation was 2.71 inches. A severe wind storm on the 29th.

DECEMBER

The weather for December was cold the entire month. The mean temperature was 24.4° , which is 5.6° below the average for December. This low mean has only been equalled three times in the past 32 years. The highest recorded was 56° on the 13th and the lowest was -4° on the 20th. The total precipitation was 1.69 inches.